



KANSAS CORPORATION COMMISSION 1106288
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 # 32016
Name: Wells, Rodger D. dba Pioneer Resources
Address 1: 80 Windmill Dr.
Address 2:
City: PHILLIPSBURG State: KS Zip: 67661 +
Contact Person: Rodger Wells
Phone: (785) 543-5556
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Clifton Ottaway
Purchaser: None

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 #:

11/23/2012	11/28/2012	11/29/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-147-20694-00-00

Spot Description:
S2 NW NW NE Sec. 3 Twp. 5 S. R. 18 East West
335 Feet from North / South Line of Section
2310 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Phillips

Lease Name: FOUNDATION Well #: 2

Field Name: Lazy OK South

Producing Formation: None

Elevation: Ground: 1865 Kelly Bushing: 1873

Total Depth: 3340 Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 221 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 cnt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 11000 ppm Fluid volume: 240 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Pioneer Resources

Lease Name: Heffron #1 SWD License #: 32016

Quarter NW Sec. 23 Twp. 2 S. R. 19 East West

County: Phillips Permit #: E-08-195

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: 01/07/2013



1106288

Operator Name: Wells, Rodger D. dba Pioneer Resources Lease Name: FOUNDATION Well #: 2
 Sec. 3 Twp. 5 S. R. 18 East West County: Phillips

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: CDL/CNL DIL	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>1330</td> <td>+543</td> </tr> <tr> <td>Topeka</td> <td>2810</td> <td>-937</td> </tr> <tr> <td>Heebner</td> <td>3012</td> <td>-1139</td> </tr> <tr> <td>Toronto</td> <td>3040</td> <td>-1167</td> </tr> <tr> <td>Lansing</td> <td>3054</td> <td>-1181</td> </tr> <tr> <td>Base KC</td> <td>3278</td> <td>-1405</td> </tr> <tr> <td>LTD</td> <td>3342</td> <td>-1469</td> </tr> </tbody> </table>	Name	Top	Datum	Anhydrite	1330	+543	Topeka	2810	-937	Heebner	3012	-1139	Toronto	3040	-1167	Lansing	3054	-1181	Base KC	3278	-1405	LTD	3342	-1469
Name	Top	Datum																							
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Base KC	3278	-1405																							
LTD	3342	-1469																							

CASING RECORD <input checked="" 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
Surface Pipe	12.25	8.625	23	221	Common	150	2%Gel & 3%CC

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 056073

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

SERVICE POINT:

Russell, KS

DATE <i>11-29-12</i>	SIC <i>3</i>	TWP <i>5</i>	RANGE <i>7E</i>	CALLED OUT	ON LOCATION	JOB START <i>6:30</i>	JOB FINISH <i>7:00</i>
LEASE <i>Foundation</i>	WELL # <i>2</i>	LOCATION <i>Stockman Ks</i>		COUNTY <i>Phillips</i>	STATE <i>KS</i>		
OLD OR NEW (Circle one)		<i>11,500 15,000 4 month 150' well</i>					

CONTRACTOR *Discovery #1*
TYPE OF JOB *PTP*
HOLE SIZE _____ T.D. _____
CASING SIZE _____ DEPTH _____
TUBING SIZE _____ DEPTH _____
DRILL PIPE *4 1/2* DEPTH *1340'*
TOOL _____ DEPTH _____
PRES. MAX _____ MINIMUM _____
MEAS. LINE _____ SHOE JOINT _____
CEMENT LEFT IN CSG. _____
PERFS. _____
DISPLACEMENT _____

OWNER _____
CEMENT AMOUNT ORDERED *2205L 60/40*
41.30 4 270 200'
COMMON *1525L* @ *17.90* \$ *27322.80*
POZMIX *885L* @ *9.35* \$ *8272.80*
GEL *25L* @ *28.40* \$ *712.00*
CHLORIDE _____ @ _____
ASC *2-140 bags* @ *7.97* \$ *148.50*
per #1 @ _____
HANDLING *256.67 P/B* @ *2.98* \$ *7536.55*
MILEAGE *545.375 1/10* @ *2.60* \$ *1418.50*
TOTAL *265,521.77*

EQUIPMENT

PUMP TRUCK # <i>1109</i>	CEMENTER <i>Tony P.</i>	HELPER <i>Kevin K.</i>
BULK TRUCK # <i>1173</i>	DRIVER <i>Kerry T.</i>	
BULK TRUCK # _____	DRIVER _____	

REMARKS:

1 x Pump Cement @ 25 SL - 11,21' - 1340'
2 x Pump Cement @ 100 SL - 25,1' - 745'
3 x Pump Cement @ 40 SL - 270' - 270'
24 x Pump Cement @ 10 SL - 2,51' - 70'
25 x Pump Cement @ 30 SL - 7,53'
old pump cement @ 15 SL - 3,76'

SERVICE

DEPTH OF JOB <i>1340'</i>	
PUMP TRUCK CHARGE	<i>\$2,100.00</i>
EXTRA FOOTAGE	()
MILEAGE <i>Heavy 55 mi</i>	@ <i>7.70</i> \$ <i>4228.50</i>
MANIFOLD <i>Ceb. 55 mi</i>	@ <i>4.40</i> \$ <i>2412.00</i>
	()
	()

CHARGE TO: *Prodiv Resources*
STREET _____
CITY _____ STATE _____ ZIP _____

TOTAL *\$3,215.50*

PLUG & FLOAT EQUIPMENT

<i>1 - gasolin plug</i>	@	<i>15,107.64</i>
	@	
	@	
	@	
	@	

TOTAL *15,107.64*

To: Allied Oil & Gas Services, 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) *604.85*
TOTAL CHARGES *\$ 8,894.35*
DISCOUNT *\$ 3,068.75* IF PAID IN 30 DAYS
Net 5826.18 BS 11-30
before tax

PRINTED NAME _____
SIGNATURE *Cliff Marshall*

ALLIED OIL & GAS SERVICES, LLC 056068

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

SERVICE POINT:
Russell, KS

DATE <u>11-23-12</u>	WELL NO. <u>3</u>	TWT <u>5</u>	RANGE <u>18</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00</u>	JOB FINISH <u>8:30</u>
LEASE <u>Foundation</u>	WELL <u>2</u>		LOCATION <u>Stockton, KS</u>			COUNTY <u>Woods</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR <u>Discovery #1</u>	OWNER
TYPE OF JOB <u>Seal</u>	CEMENT
HOLE SIZE <u>2 1/4</u>	AMOUNT ORDERED <u>150 SK checked</u>
CASING SIZE <u>2 3/8</u>	DEPTH <u>220 ft</u>
TUBING SIZE	DEPTH <u>3100 2.7.24</u>
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG	
PERFS	
DISPLACEMENT <u>12.84 gal</u>	

EQUIPMENT		COMMON <u>150 SK @ 17.90 \$2,685.00</u>
PUMP TRUCK	CEMENTER <u>Tony R. Bob S</u>	FOZ MIX
# <u>707</u>	HELPER <u>Kouza K</u>	CEL. <u>3 cks @ 29.40 \$70.20</u>
BULK TRUCK		CHLORIDE <u>5 sk @ 64.00 \$320.00</u>
# <u>378</u>	DRIVER <u>Andrew D.</u>	ASC
BULK TRUCK		
#	DRIVER	

HANDLING <u>102.07 \$2.48 \$401.55</u>
FREIGHT <u>407.00 \$1.00 \$407.00</u>
TOTAL <u>\$4,582.75</u>

REMARKS:

* circulated mud to surface
 * Run cement pump 2:15 PM
 @ 100 SK
 * Deposed cement to surface
 @ 12:04 PM
 * Shut in cement to 200 ft

Amended

CHARGE TO: Pioneer Resources
 STREET
 CITY STATE ZIP

SERVICE

DEPTH OF JOB <u>220 ft</u>
PUMP TRUCK CHARGE <u>\$1,512.50</u>
EXTRA FOOTAGE
MILEAGE <u>Hwy 55 mile @ 2.70 \$423.00</u>
MANIFOLD <u>1 unit 55 mile @ 44.40 \$241.00</u>

TOTAL \$2,177.75

PLUG & FLOAT EQUIPMENT

TOTAL

To: Allied Oil & Gas Services, 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 by contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME
 SIGNATURE [Signature]

SALES TAX (if Any) <u>193.73</u>
TOTAL CHARGES <u>\$6,713.13</u>
DISCOUNT <u>\$1,512.50</u>
Net <u>4900.57</u> 11-25
before tax <u>BS</u>

IF PAID IN 30 DAYS

CLIFF OTTAWAY

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

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

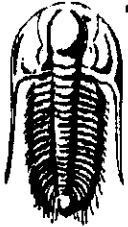
COMPANY <u>PIONEER RESOURCES</u> LEASE <u>FOUNDATION No 2</u> FIELD _____ LOCATION <u>335' ENL 9 2310' FEL</u> SEC <u>3</u> TWSP <u>5</u> RGE <u>18</u> COUNTY <u>PHILLIPS STATE KANSAS</u>	ELEVATIONS KB <u>1873'</u> DF <u>1871'</u> GL <u>1865'</u> Measurements Are All From <u>K.B.</u>
CONTRACTOR <u>DISCOVERY DRILLING 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>3 3/4" 220' 1/2"</u> PRODUCTION <u>DNA</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
<u>ANHYDRITE</u>	<u>1328</u>	<u>1330</u>	<u>1543</u>	<u>1570</u>	<u>1559</u>	
<u>TOPEKA</u>	<u>2807</u>	<u>2810</u>	<u>-937</u>	<u>-935</u>	<u>-937</u>	
<u>HEEBNER</u>	<u>3010</u>	<u>3012</u>	<u>-1139</u>	<u>-1138</u>	<u>-1138</u>	
<u>TORONTO</u>	<u>3038</u>	<u>3040</u>	<u>-1167</u>	<u>-1162</u>		
<u>LANSING - RC.</u>	<u>3052</u>	<u>3054</u>	<u>-1181</u>	<u>-1179</u>	<u>-1181</u>	
<u>BASE - RC.</u>	<u>3277</u>	<u>3278</u>	<u>-1405</u>	<u>-1405</u>	<u>-1405</u>	
<u>R.T.D.</u>		<u>3340</u>	<u>-1467</u>	<u>-1471</u>	<u>-1471</u>	
<u>L.T.D.</u>		<u>3342</u>	<u>-1469</u>			

REFERENCE WELLS FOR STRUCTURE

- A ORARK ENTERPRISES HUNTERMAN No 1 E-N-E 3-11
- B ORARK ENTERPRISES HUNTERMAN No 1 N-E-N-E 3-11
- C _____



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

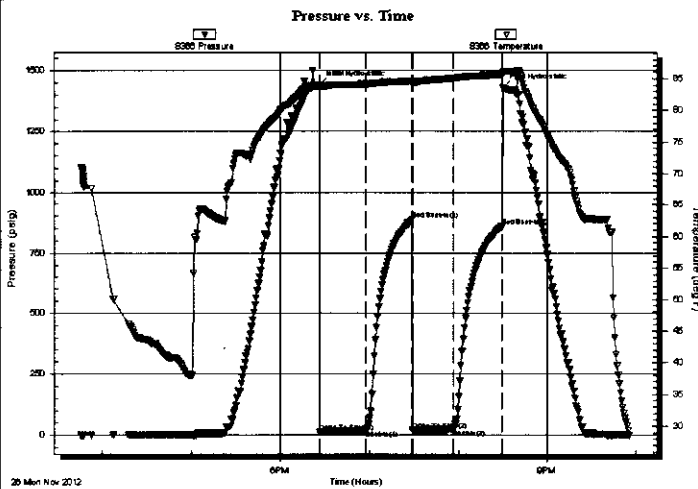
3-5s-18w-Phillips
Foundation #2
Job Ticket: 48738 **DST#: 1**
Test Start: 2012.11.26 @ 15:45:51

GENERAL INFORMATION:

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

Serial #: 8366 **Inside**
Press@RunDepth: **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

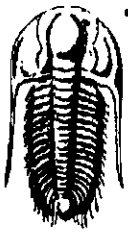
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1442.75	84.08	Initial Hydro-static
1	11.68	83.59	Open To Flow (1)
32	19.01	84.17	Shut-in(1)
63	885.50	84.66	End Shut-in(1)
63	20.22	84.15	Open To Flow (2)
91	24.01	85.12	Shut-in(2)
123	858.57	85.64	End Shut-in(2)
124	1430.81	85.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	VSOCM-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
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

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: bbl		
Water Loss: 7.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

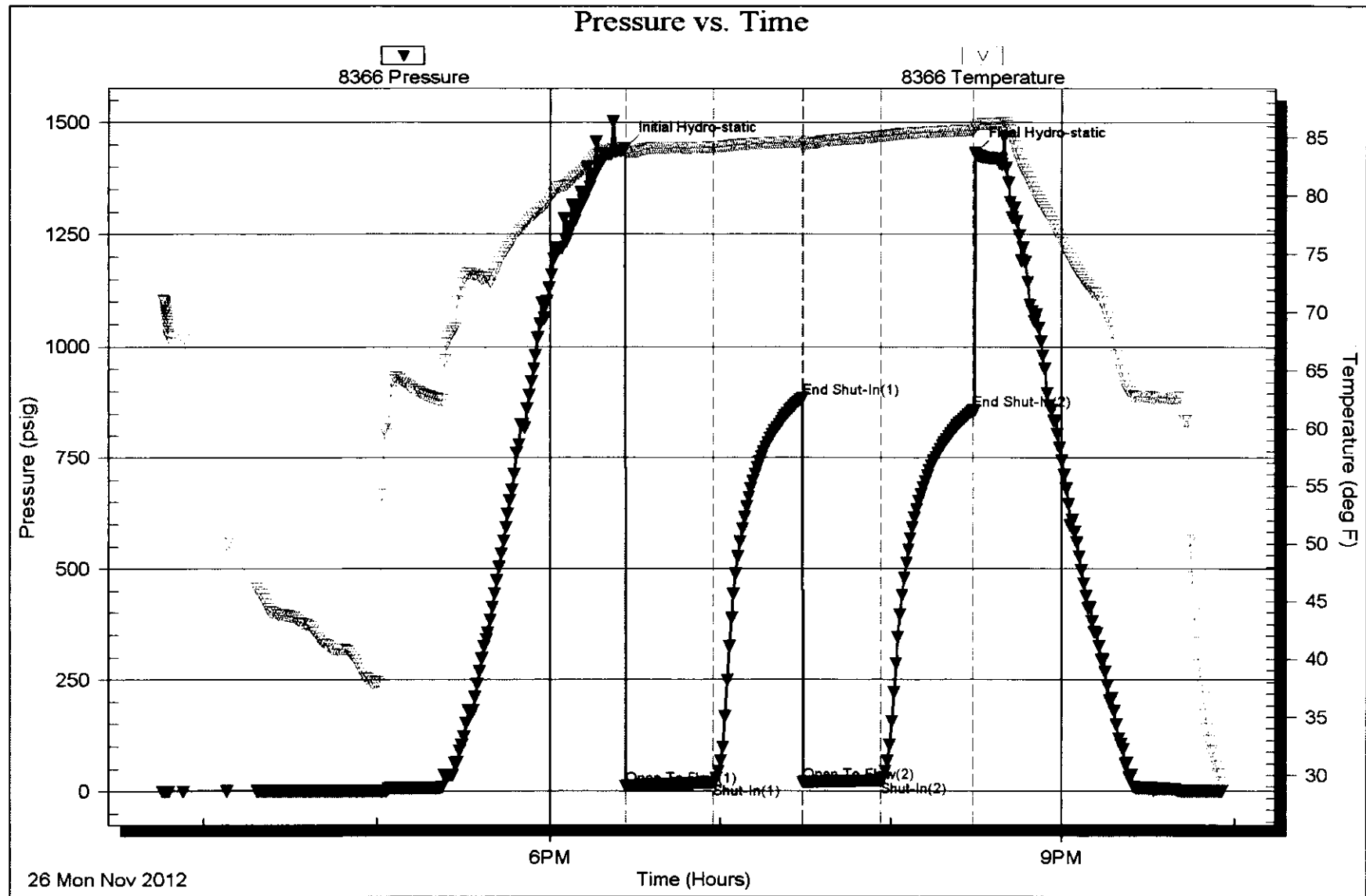
Length ft	Description	Volume bbl
10.00	VSOCM-1%O-99%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

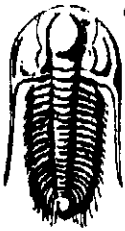
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



26 Mon Nov 2012



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

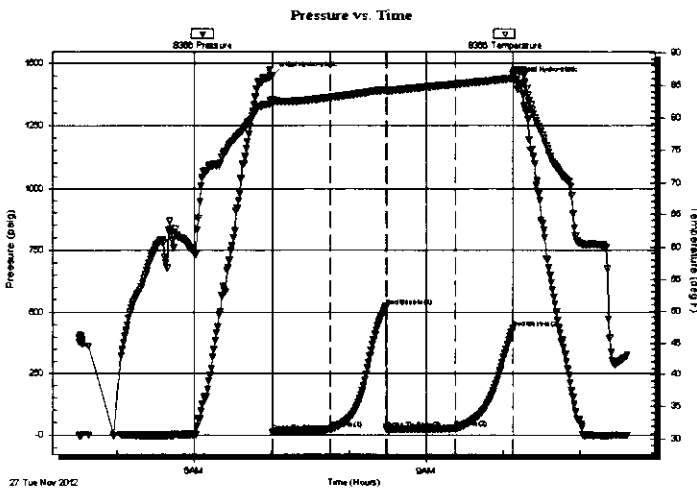
3-5s-18w-Phillips
Foundation #2
Job Ticket: 48739 **DST#: 2**
Test Start: 2012.11.27 @ 04:30:28

GENERAL INFORMATION:

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

Serial #: 8366 **Inside**
Press@RunDepth: **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

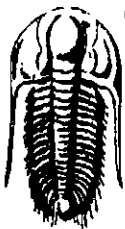
Recovery

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
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

Mud and Cushion Information

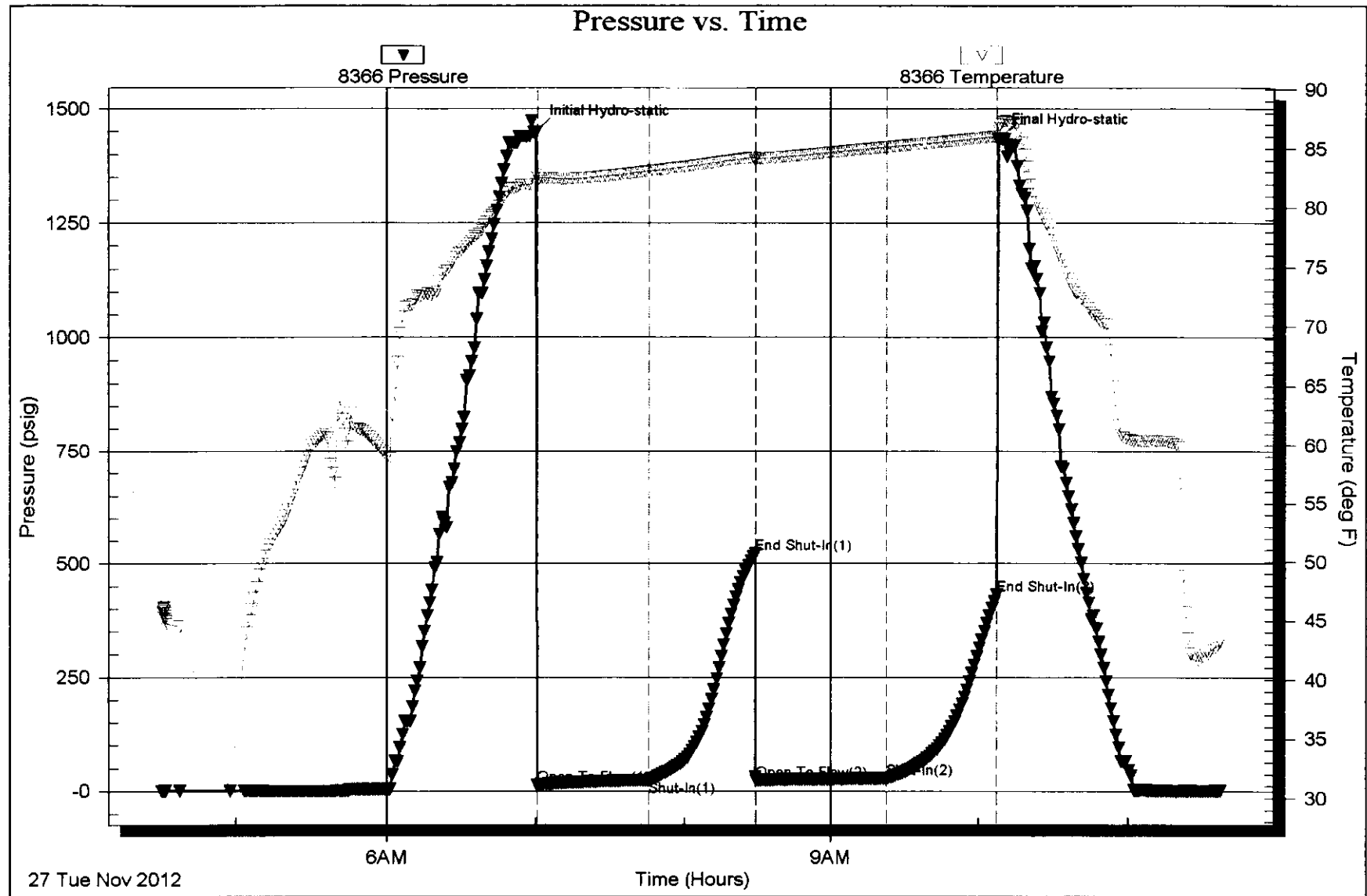
Mud Type: Gel Chem	Cushion Type:	Oil API:	38 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: inches			

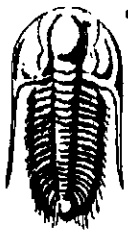
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
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:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

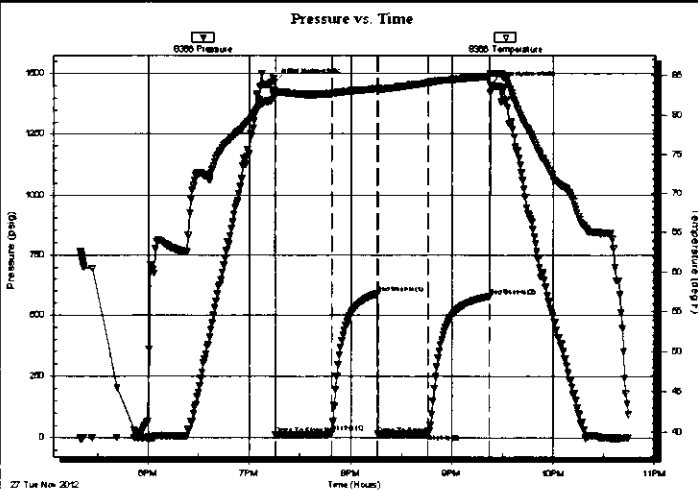
3-5s-18w-Phillips
Foundation #2
 Job Ticket: 48740 **DST#: 3**
 Test Start: 2012.11.27 @ 17:19:21

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@RunDepth: 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

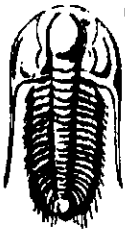
Recovery

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

* 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: 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:

bbl

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

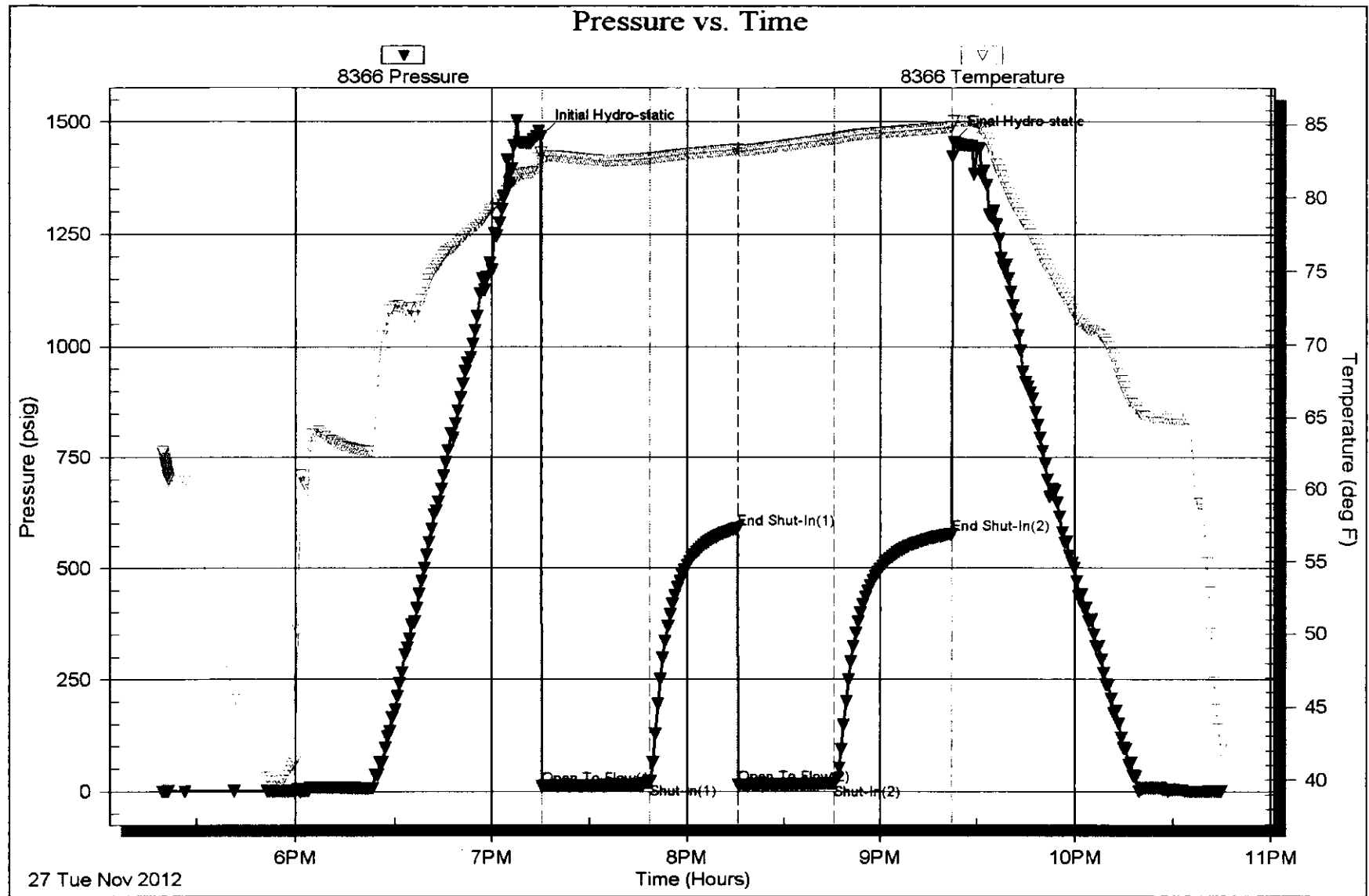
Num Gas Bombs: 0

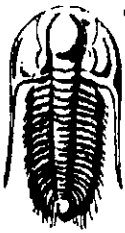
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRIOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

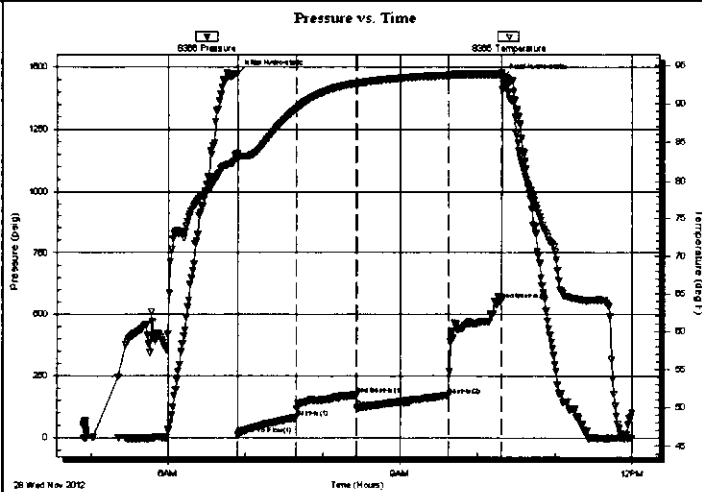
3-5s-18w-Phillips
Foundation #2
Job Ticket: 48741 **DST#: 4**
Test Start: 2012.11.28 @ 04:54:07

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@RunDepth: 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

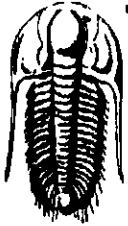
Recovery

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:	bbf		
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 bbf
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 bbf

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

Laboratory Name: Laboratory Location:

Recovery Comments:

