KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1106043

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 # 34418
Name: Prairie Fire Petroleum, LLC
Address 1: PO BOX 38
Address 2: 102 E. Lincoln
City: NORTON State: KS Zip: 67654 + _ _ _ _
Contact Person: Douglas C. Frickey
Phone: (785) 874-4840
CONTRACTOR: License # 34535
Name: Integrity Drilling Co., LLC
Wellsite Geologist: Chris Bean
Purchaser:

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [ ] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [ ] Gas
- [x] 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 #:

10/30/2012	11/5/2012	11/7/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-137-20623-00-00
Spot Description:
NE - NW - SW - NE Sec. 22 Twp. 3 S. R. 23 [ ] East [x] West
1640 Feet from [x] North / [ ] South Line of Section
2020 Feet from [x] East / [ ] West Line of Section

Footages Calculated from Nearest Outside Section Corner:
[x] NE [ ] NW [ ] SE [ ] SW

County: Norton
Lease Name: Gill Well #: 1-22
Field Name:
Producing Formation: None
Elevation: Ground: 2452 Kelly Bushing: 2459
Total Depth: 3800 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 319 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 20000 ppm Fluid volume: 2500 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:**
- [x] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [ ] I [x] II [ ] III **Approved by:** Deanna Garrison **Date:** 01/08/2013

Side Two

1106043

Operator Name: Prairie Fire Petroleum, LLC Lease Name: Gill Well #: 1-22

Sec. 22 Twp. 3 S. R. 23 ☐ East ☑ West County: Norton

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 Compensated Porosity Log
Microresistivity Log
Dual Industion Log

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

Name	Top	Datum
Attached	Attached	Attached

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	12.25	8.6250	23	319	Class A Common	200	3% CC, 2% Gel

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 *(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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*	

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

Form	ACO1 - Well Completion
Operator	Prairie Fire Petroleum, LLC
Well Name	Gill 1-22
Doc ID	1106043

Tops

Name	Top	Datum
Anhydrite	2025	+434
Base/Anhydrite	2053	+406
Topeka	3351	-892
Heebner Shale	3491	-1032
Toronto	3519	-1060
Lansing	3533	-1074
Base/Kansas City	3719	-1260
Reagan Sand	3747	1288
Granite Wash	3762	-1303
PreCambrian	3789	-1330
RTD Rotary TD	3800	-1341

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Prairie Fire Petroleum LLC**

PO Box 38
Norton KS 67654

ATTN: Chris Bean

Gill #1-22

22-3s-23w Norton,KS

Start Date: 2012.11.04 @ 00:12:00
End Date: 2012.11.04 @ 07:06:00
Job Ticket #: 48155 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.11.13 @ 14:07:03

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Prairie Fire Petroleum LLC
PO Box 38
Norton KS 67654

ATTN: Chris Bean

22-3s-23w Norton,KS

Gill #1-22

Job Ticket: 48155 **DST#: 1**

Test Start: 2012.11.04 @ 00:12:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:18:30
Time Test Ended: 07:06:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Nichols/ James
Unit No: 57

Interval: 3500.00 ft (KB) To 3570.00 ft (KB) (TVD)
Total Depth: 3570.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

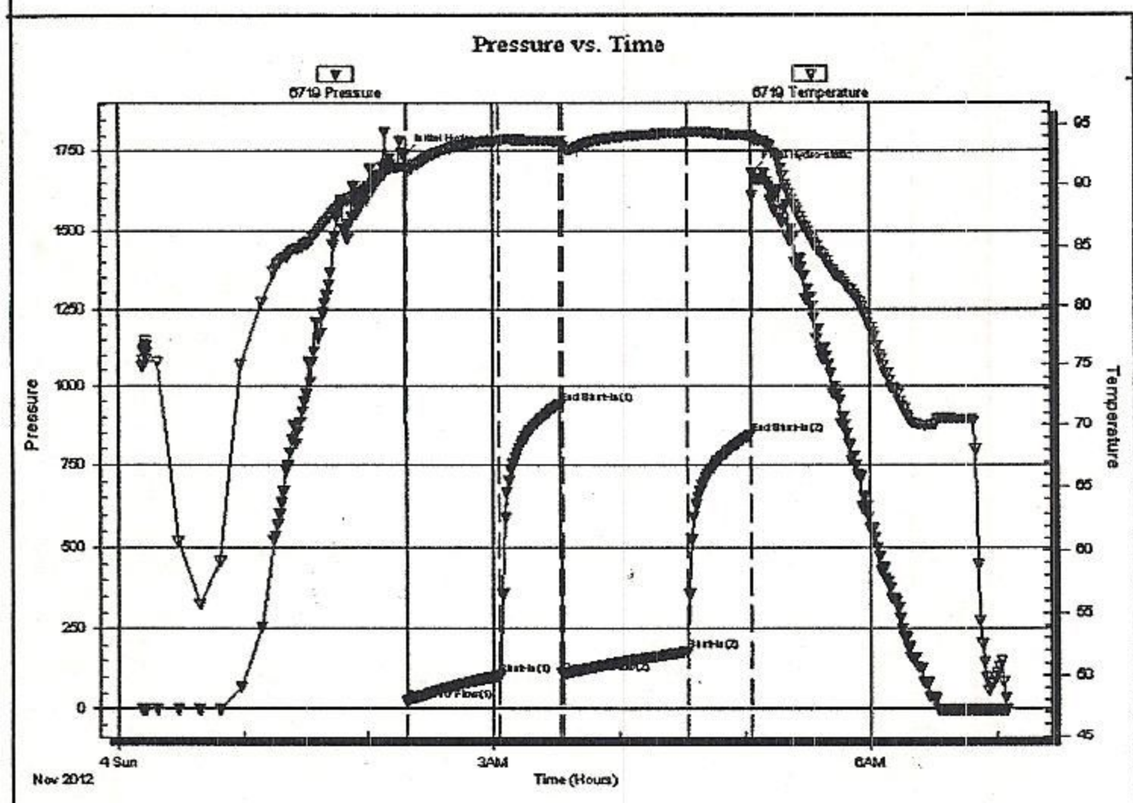
Reference Elevations: 2459.00 ft (KB)
2452.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6719 **Inside**

Press@RunDepth: 180.01 psig @ 3501.00 ft (KB)
Start Date: 2012.11.04 End Date: 2012.11.04
Start Time: 00:12:05 End Time: 07:05:59

Capacity: 8000.00 psig
Last Calib.: 2012.11.04
Time On Btm: 2012.11.04 @ 02:18:00
Time Off Btm: 2012.11.04 @ 05:04:00

TEST COMMENT:
45 IF - Built to BoB (11") in 18 mins.
30 ISI - No return
60 FF - Built to BoB in 33 mins.
30 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1737.48	91.46	Initial Hydro-static
1	22.98	91.15	Open To Flow (1)
45	104.17	93.64	Shut-In(1)
74	943.33	93.60	End Shut-In(1)
75	109.11	93.16	Open To Flow (2)
135	180.01	94.33	Shut-In(2)
165	843.83	94.09	End Shut-In(2)
166	1681.11	93.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
355.00	MCW - 85% W - 15% M	4.98

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Prairie Fire Petroleum LLC

PO Box 38
Norton KS 67654

ATTN: Chris Bean

22-3s-23w Norton,KS

Gill #1-22

Job Ticket: 48155 **DST#: 1**

Test Start: 2012.11.04 @ 00:12:00

GENERAL INFORMATION:

Formation: **Toronto - LKC "C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:18:30
Time Test Ended: 07:06:00

Interval: 3500.00 ft (KB) To 3570.00 ft (KB) (TVD)
Total Depth: 3570.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

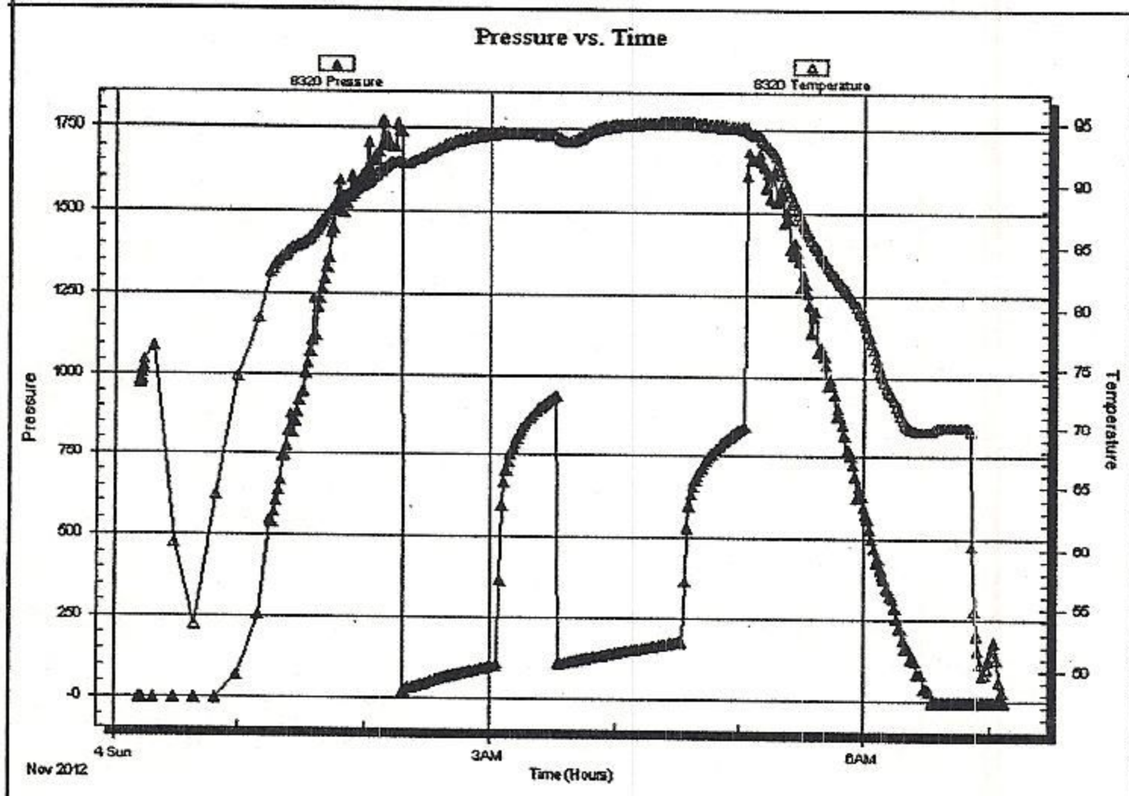
Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Nichols/ James
Unit No: 57

Reference Elevations: 2459.00 ft (KB)
2452.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8320 **Outside**

Press@RunDepth:	psig @	3501.00 ft (KB)		Capacity:	8000.00 psig
Start Date:	2012.11.04	End Date:	2012.11.04	Last Calib.:	2012.11.04
Start Time:	00:12:05	End Time:	07:07:59	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: 45 IF - Built to BoB (11") in 18 mins.
30 ISI - No return
60 FF - Built to BoB in 33 mins.
30 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
355.00	MCW - 85% W - 15% M	4.98

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prairie Fire Petroleum LLC

PO Box 38
Norton KS 67654

ATTN: Chris Bean

22-3s-23w Norton,KS

Gill #1-22

Job Ticket: 48155 **DST#: 1**

Test Start: 2012.11.04 @ 00:12:00

Tool Information

Drill Pipe:	Length:	3498.00 ft	Diameter:	3.80	inches	Volume:	49.07 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25	inches	Volume:	0.00 bbl	Weight to Pull Loose:	56000.00 lb
						Total Volume:	49.07 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		26.00 ft						String Weight: Initial	45000.00 lb
Depth to Top Packer:		3500.00 ft						Final	48000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		70.00 ft							
Tool Length:		98.00 ft							
Number of Packers:		2	Diameter:	6.75	inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3477.00		
Hydraulic tool	5.00			3482.00		
Jars	5.00			3487.00		
Safety Joint	3.00			3490.00		
Packer	5.00			3495.00	28.00	Bottom Of Top Packer
Packer	5.00			3500.00		
Packer - Shale	0.00			3500.00		
Stubb	1.00			3501.00		
Recorder	0.00	6719	Inside	3501.00		
Recorder	0.00	8320	Outside	3501.00		
Perforations	30.00			3531.00		
Blank Spacing	33.00			3564.00		
Perforations	3.00			3567.00		
Bullnose	3.00			3570.00	70.00	Bottom Packers & Anchor
Total Tool Length:	**98.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Prairie Fire Petroleum LLC

PO Box 38
Norton KS 67654

ATTN: Chris Bean

22-3s-23w Norton,KS

Gill #1-22

Job Ticket: 48155 **DST#: 1**

Test Start: 2012.11.04 @ 00:12:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	65000 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.39 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1600.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
355.00	MCW - 85% W - 15% M	4.980

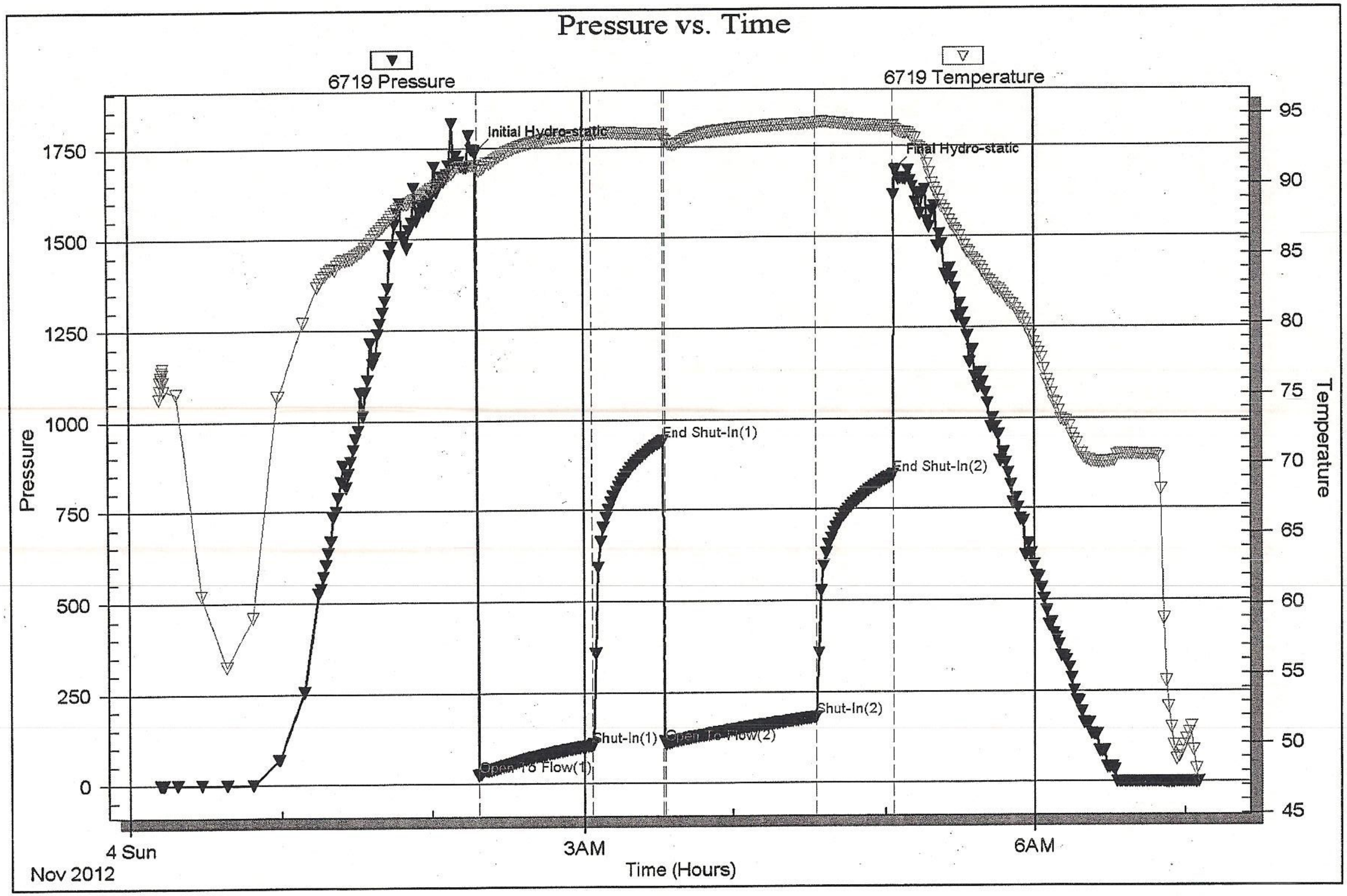
Total Length: 355.00 ft Total Volume: 4.980 bbl

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

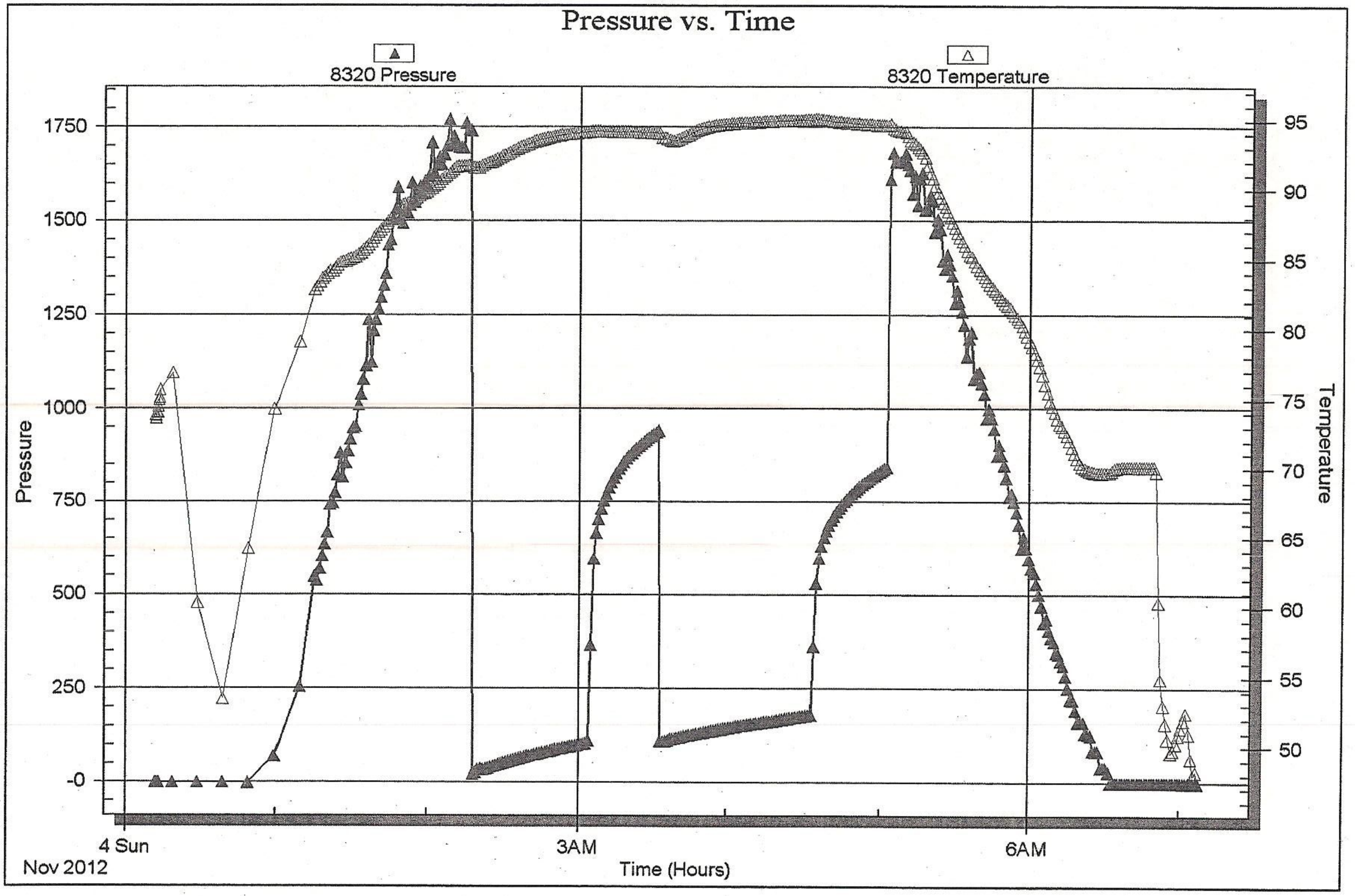
Laboratory Name: Laboratory Location:

Recovery Comments: RW = .153 Ohms @ 52 deg. F chlorides = 65000 ppm

Serial #: 6719 Inside Prairie Fire Petroleum LLC Gill #1-22 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 48155 Printed: 2012.11.13 @ 14:07:07


Pressure vs. Time
8320 Pressure
8320 Temperature
Pressure
1750
1500
1250
1000
750
500
250
-0
Temperature
95
90
85
80
75
70
65
60
55
50
4 Sun
Nov 2012
3AM
6AM
Time (Hours)

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Prairie Fire Petroleum LLC**

PO Box 38
Norton KS 67654

ATTN: Chris Bean

Gill #1-22

22-3s-23w Norton,KS

Start Date: 2012.11.04 @ 20:38:00

End Date: 2012.11.05 @ 02:56:00

Job Ticket #: 48156 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.11.13 @ 14:06:10

Prairie Fire Petroleum LLC 22-3s-23w Norton,KS Gill #1-22 DST # 2 LKC "D" 2012.11.04

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Prairie Fire Petroleum LLC
PO Box 38
Norton KS 67654

ATTN: Chris Bean

22-3s-23w Norton,KS

Gill #1-22

Job Ticket: 48156 **DST#: 2**

Test Start: 2012.11.04 @ 20:38:00

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:14:30
Time Test Ended: 02:56:00

Test Type: Conventional Straddle (Reset)
Tester: Ryan Nichols/ James
Unit No: 57

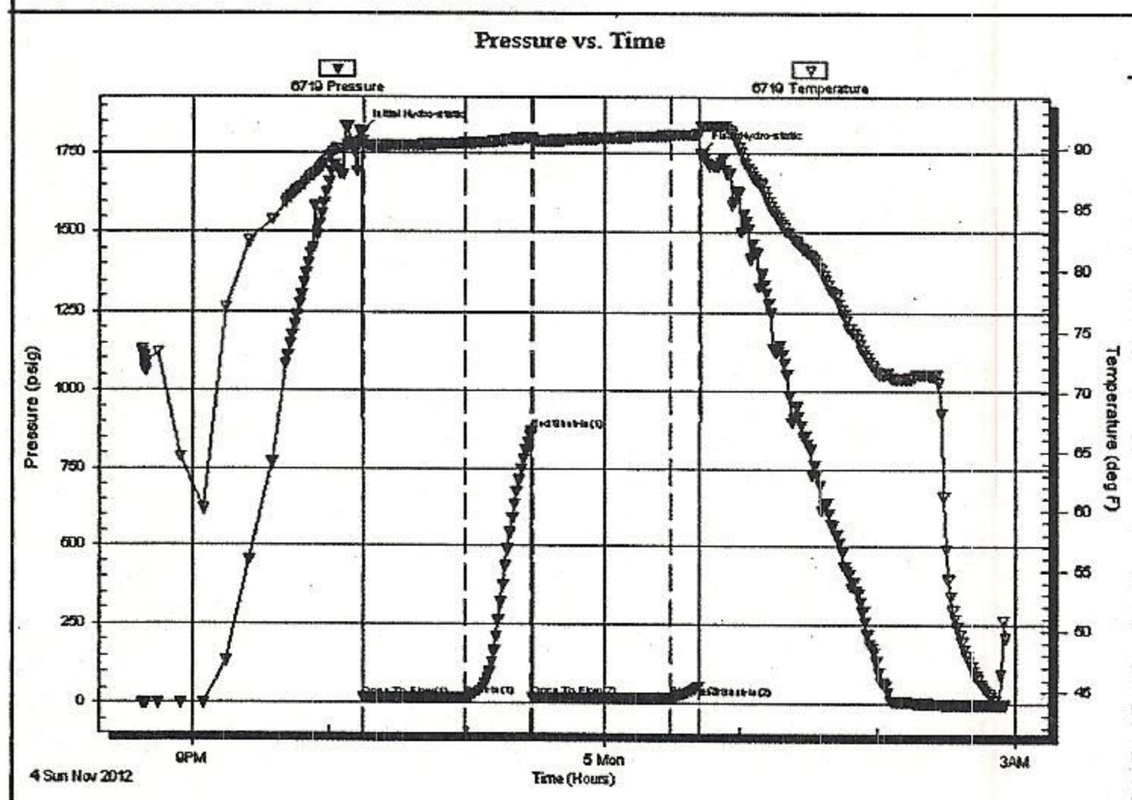
Interval: 3565.00 ft (KB) To 3585.00 ft (KB) (TVD)
Total Depth: 3660.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2459.00 ft (KB)
2452.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6719 **Inside**

Press@RunDepth:	19.65 psig @	3566.00 ft (KB)		Capacity:	8000.00 psig
Start Date:	2012.11.04	End Date:	2012.11.05	Last Calib.:	2012.11.05
Start Time:	20:38:05	End Time:	02:55:59	Time On Btm:	2012.11.04 @ 22:14:00
				Time Off Btm:	2012.11.05 @ 00:42:30

TEST COMMENT: 45 IF - 1/4" blow in 7 mins died off in 26 mins
30 ISI - No return
60 FF - No blow
15 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1816.80	90.53	Initial Hydro-static
1	17.57	90.23	Open To Flow (1)
45	19.11	90.39	Shut-In(1)
74	871.06	90.87	End Shut-In(1)
75	20.16	90.70	Open To Flow (2)
135	19.65	91.04	Shut-In(2)
148	56.89	91.15	End Shut-In(2)
149	1748.25	91.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	WCM - 98%M - 2%W	0.03

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Prairie Fire Petroleum LLC

PO Box 38
Norton KS 67654

ATTN: Chris Bean

22-3s-23w Norton,KS

Gill #1-22

Job Ticket: 48156 **DST#: 2**

Test Start: 2012.11.04 @ 20:38:00

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:14:30
Time Test Ended: 02:56:00

Interval: 3565.00 ft (KB) To 3585.00 ft (KB) (TVD)
Total Depth: 3660.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

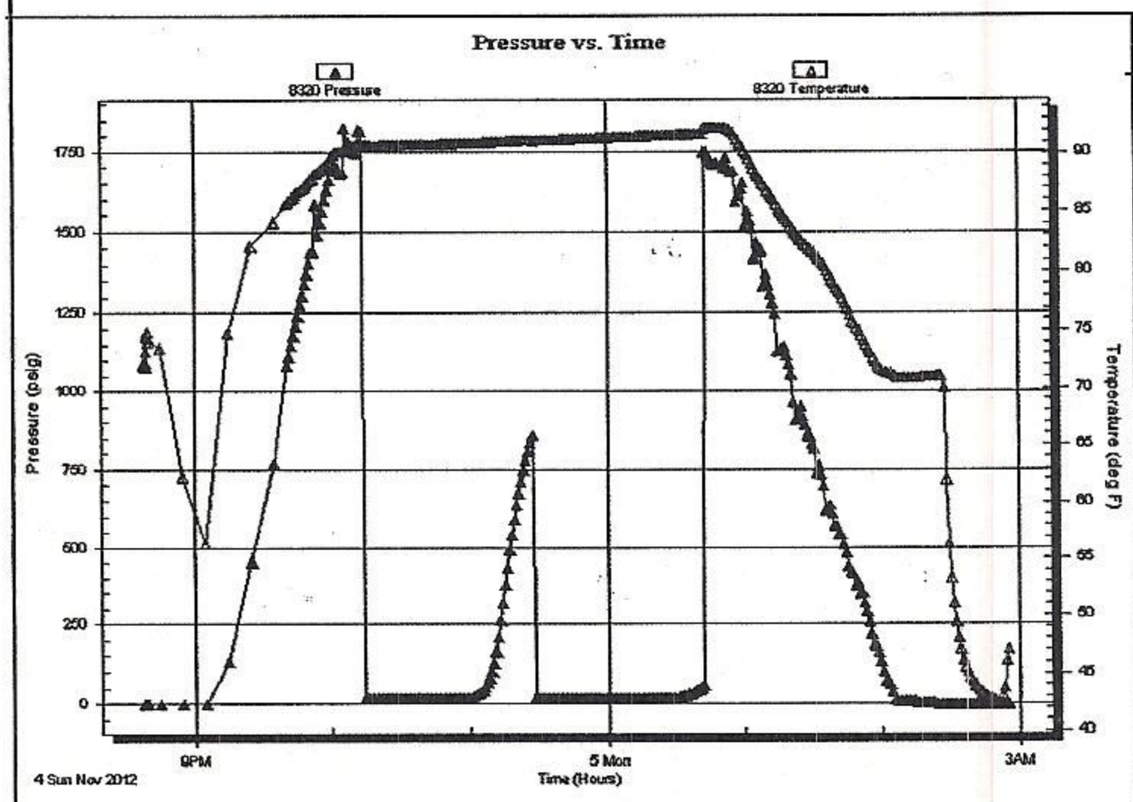
Test Type: Conventional Straddle (Reset)
Tester: Ryan Nichols/ James
Unit No: 57

Reference Elevations: 2459.00 ft (KB)
2452.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8320 **Outside**
Press@RunDepth: psig @ 3566.00 ft (KB)
Start Date: 2012.11.04 End Date: 2012.11.05
Start Time: 20:38:05 End Time: 02:55:59

Capacity: 8000.00 psig
Last Calib.: 2012.11.05
Time On Btm:
Time Off Btm:

TEST COMMENT: 45 IF - 1/4" blow in 7 mins died off in 26 mins
30 ISI - No return
60 FF - No blow
15 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
2.00	WCM - 98%M - 2%W	0.03

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Prairie Fire Petroleum LLC

PO Box 38
Norton KS 67654

ATTN: Chris Bean

22-3s-23w Norton,KS

Gill #1-22

Job Ticket: 48156 **DST#: 2**

Test Start: 2012.11.04 @ 20:38:00

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:14:30
Time Test Ended: 02:56:00

Interval: 3565.00 ft (KB) To 3585.00 ft (KB) (TVD)
Total Depth: 3660.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Straddle (Reset)
Tester: Ryan Nichols/ James
Unit No: 57

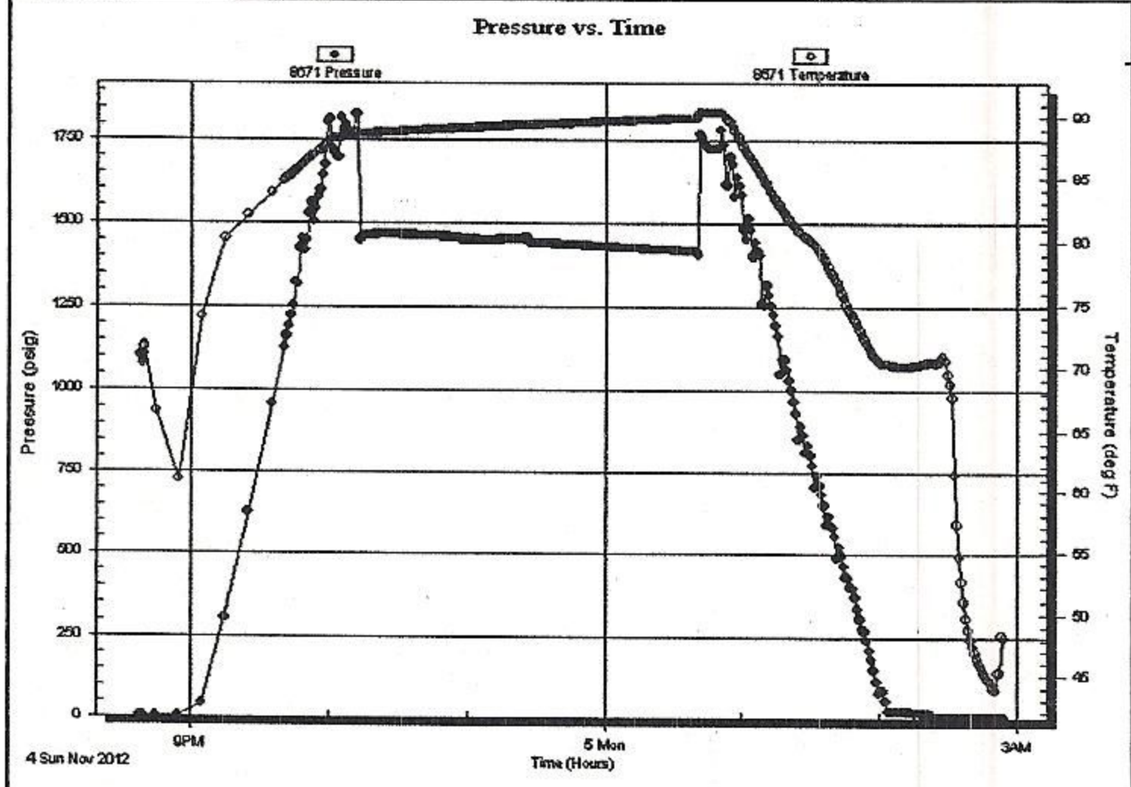
Reference Elevations: 2459.00 ft (KB)
2452.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8671 **Below (Straddle)**

Press@RunDepth: psig @ 3586.00 ft (KB)
Start Date: 2012.11.04 End Date: 2012.11.05
Start Time: 20:38:05 End Time: 02:54:29

Capacity: 8000.00 psig
Last Calib.: 2012.11.05
Time On Btm:
Time Off Btm:

TEST COMMENT: 45 IF - 1/4" blow in 7 mins died off in 26 mins
30 ISI - No return
60 FF - No blow
15 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
2.00	WCM - 98%M - 2%W	0.03

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

TRILOBITE TESTING, INC.

Prairie Fire Petroleum LLC

PO Box 38
Norton KS 67654

ATTN: Chris Bean

22-3s-23w Norton,KS

Gill #1-22

Job Ticket: 48156 **DST#: 2**

Test Start: 2012.11.04 @ 20:38:00

Tool Information

Drill Pipe:	Length:	3558.00 ft	Diameter:	3.80 inches	Volume:	49.91 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	58000.00 lb
					Total Volume:	49.91 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		21.00 ft					String Weight: Initial	45000.00 lb
Depth to Top Packer:		3565.00 ft					Final	46000.00 lb
Depth to Bottom Packer:		3585.00 ft						
Interval between Packers:		20.00 ft						
Tool Length:		123.00 ft						
Number of Packers:		3	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3542.00		
Hydraulic tool	5.00			3547.00		
Jars	5.00			3552.00		
Safety Joint	3.00			3555.00		
Packer	5.00			3560.00	28.00	Bottom Of Top Packer
Packer	5.00			3565.00		
Stubb	1.00			3566.00		
Recorder	0.00	6719	Inside	3566.00		
Recorder	0.00	8320	Outside	3566.00		
Perforations	14.00			3580.00		
Blank Off Sub	1.00			3581.00		
Blank Spacing	4.00			3585.00	20.00	Tool Interval
Packer	0.00			3585.00		
Packer - Shale	0.00			3585.00		
Stubb	1.00			3586.00		
Recorder	0.00	8671	Below	3586.00		
Perforations	6.00			3592.00		
Blank Spacing	65.00			3657.00		
Bullnose	3.00			3660.00	75.00	Bottom Packers & Anchor
Total Tool Length:	**123.00**					

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Prairie Fire Petroleum LLC

PO Box 38
Norton KS 67654

ATTN: Chris Bean

22-3s-23w Norton,KS

Gill #1-22

Job Ticket: 48156 **DST#: 2**

Test Start: 2012.11.04 @ 20:38:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	76.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.19 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2400.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	WCM - 98%M - 2%W	0.028

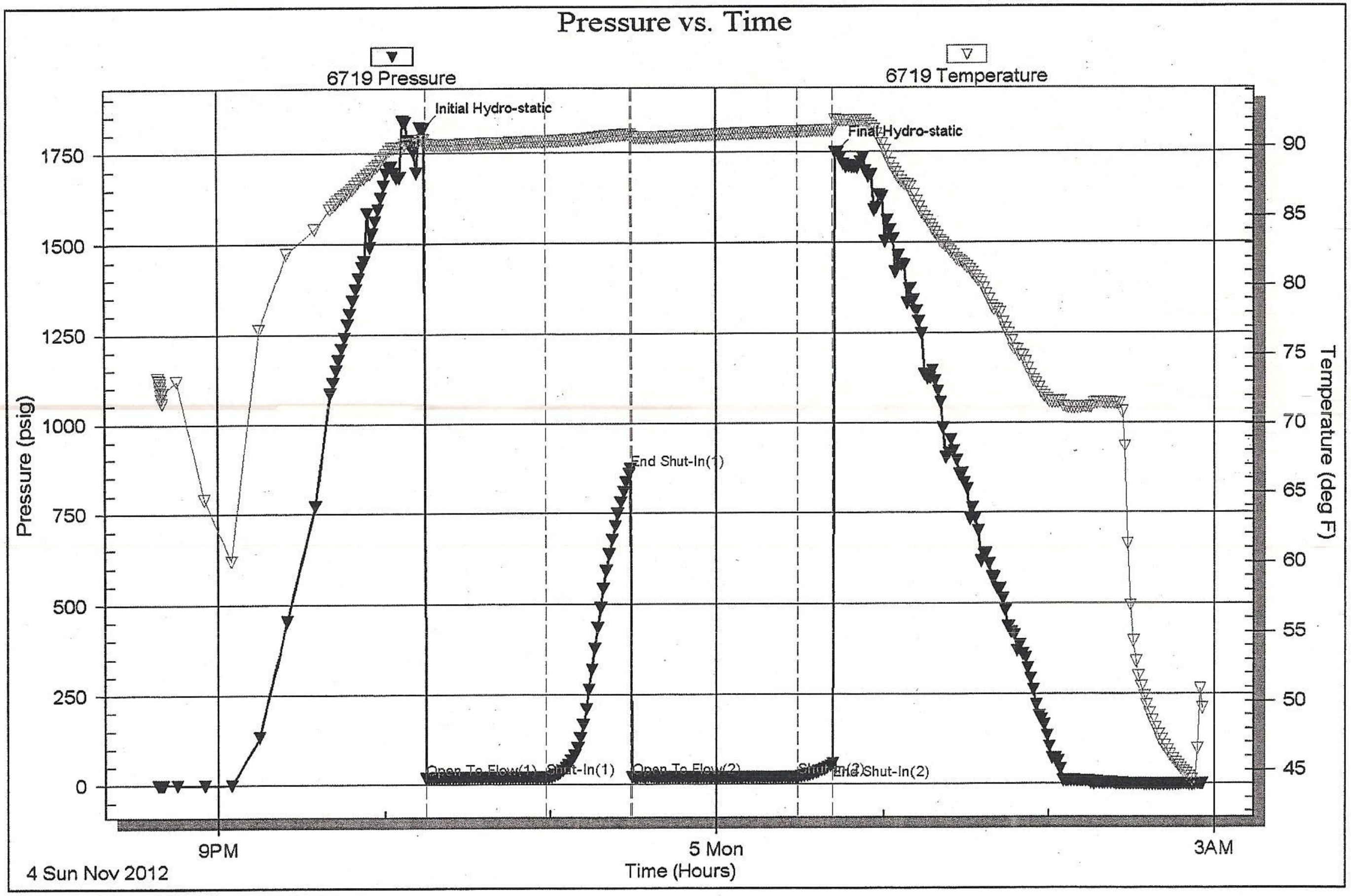
Total Length: 2.00 ft Total Volume: 0.028 bbl

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

Laboratory Name: Laboratory Location:

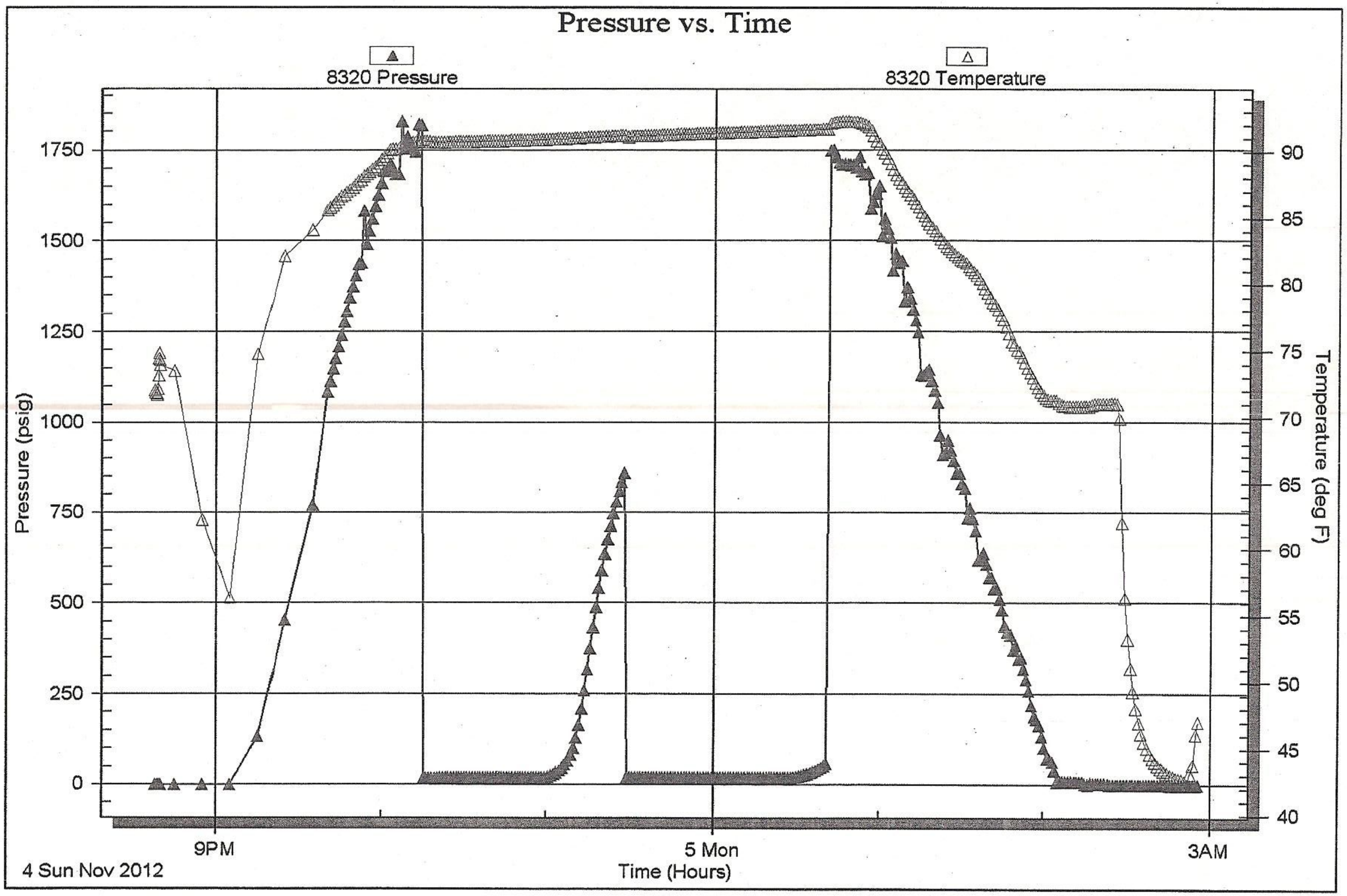
Recovery Comments:

Serial #: 6719 Inside Prairie Fire Petroleum LLC Gill #1-22 DST Test Number: 2

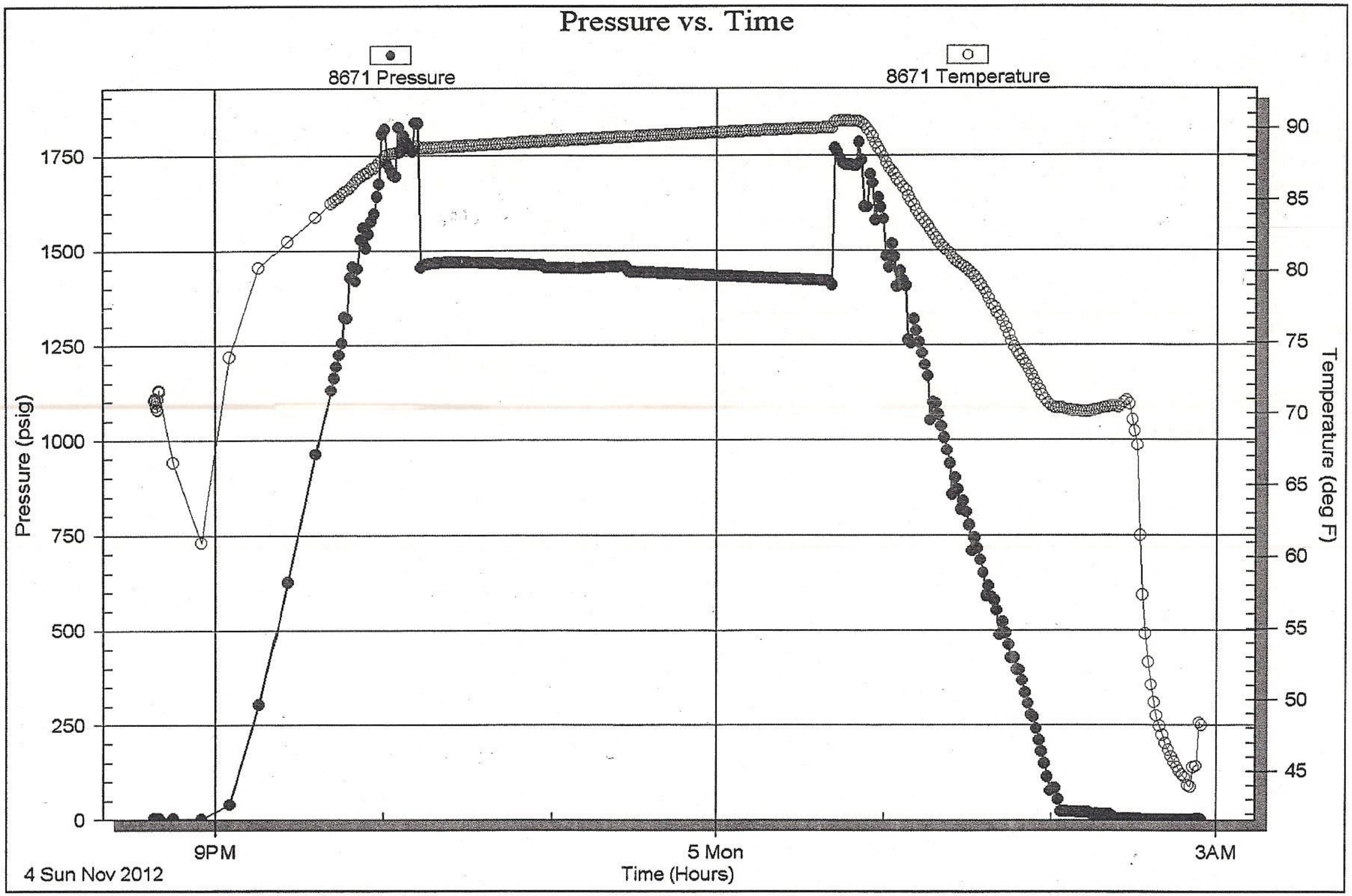


Trilobite Testing, Inc Ref. No: 48156 Printed: 2012.11.13 @ 14:06:15

Serial #: 8320 **Outside** Prairie Fire Petroleum LLC Gill #1-22 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 48156 Printed: 2012.11.13 @ 14:06:15


Pressure vs. Time
8671 Pressure
8671 Temperature
Pressure (psig)
1750
1500
1250
1000
750
500
250
0
Temperature (deg F)
90
85
80
75
70
65
60
55
50
45
9PM
5 Mon
3AM
4 Sun Nov 2012
Time (Hours)

TRILOBITE TESTING INC.
P.O. Box 1733 • Hays, Kansas 67601
4/10

Test Ticket

NO. 48155

Well Name & No. Gill # 1-22 Test No. 1 Date 11/4/12
Company Prairie Fire Petroleum LLC Elevation 2459 KB 2452 GL
Address P.O. Box 38 Norton KS 67654
Co. Rep / Geo. Chris Bean Rig Integrity Drilling #7
Location: Sec. 22 Twp. 3S Rge. 23W Co. Norton State KS

Interval Tested 3500 - 3570 Zone Tested Fronte - LKC "C"
Anchor Length 70' Drill Pipe Run 3498 Mud Wt. 8.9
Top Packer Depth 3495 Drill Collars Run 0 Vis 55
Bottom Packer Depth 3500 Wt. Pipe Run 0 WL 6.4
Total Depth 3570 Chlorides 1600 ppm System LCM 0

Blow Description 45 IF - Built to BoB in 18 mins
30 ISI - No Return
60 FF - Built to BoB in 33 mins
30 FSI - No return

Rec	355	Feet of	MCW	%gas	%oil	85	%water 15	%mud
Rec		Feet of		%gas	%oil		%water	%mud
Rec		Feet of		%gas	%oil		%water	%mud
Rec		Feet of		%gas	%oil		%water	%mud
Rec		Feet of		%gas	%oil		%water	%mud

Rec Total 356 BHT 94° Gravity ____ API RW .153 @ 52 °F Chlorides 65000 ppm

(A) Initial Hydrostatic 1737
(B) First Initial Flow 23
(C) First Final Flow 104
(D) Initial Shut-In 943
(E) Second Initial Flow 109
(F) Second Final Flow 180
(G) Final Shut-In 844
(H) Final Hydrostatic 1681

Initial Open 45
Initial Shut-In 30
Final Flow 60
Final Shut-In 30

- [x] Test 1150
- [x] Jars 250
- [x] Safety Joint 75
- [x] Circ Sub N/C
- [ ] Hourly Standby
- [x] Mileage 76 RT 117.80
- [ ] Sampler
- [ ] Straddle
- [x] Shale Packer 250
- [ ] Extra Packer
- [ ] Extra Recorder
- [ ] Day Standby
- [ ] Accessibility

Sub Total 1842.80

T-On Location 23:50 11/3/12
T-Started 00:12
T-Open 02:18
T-Pulled 05:03
T-Out 07:00

Comments

- [ ] Ruined Shale Packer
- [ ] Ruined Packer
- [ ] Extra Copies

Sub Total 0
Total 1842.80
MP/DST Disc't

Approved By ____ Our Representative James Winder / Ryan Nelson

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

TRILOBITE TESTING INC.
P.O. Box 1733 • Hays, Kansas 67601
4/10

Test Ticket

NO. 48156

Well Name & No. Gill # 1-22 Test No. 2 Date 11/4/12
Company Prairie Fire Petroleum LLC Elevation 2459 KB 2452 GL
Address P.O. Box 38 Norton KS 67654
Co. Rep / Geo. Chris Bean Rig Integrity Drilling # 7
Location: Sec. 22 Twp. 3S Rge. 23W Co. Norton State KS

Interval Tested 3565-3585 Zone Tested LKC "D"
Anchor Length 20' Anchor 75' tail Drill Pipe Run 3558 Mud Wt. 9.1
Top Packer Depth 3560-3565 Drill Collars Run 0 Vis 76
Bottom Packer Depth 3585 Wt. Pipe Run 0 WL 7.2
Total Depth 3660 Chlorides 2400 ppm System LCM 0
Blow Description 45 IF- 1/4" blow in 7mins died off in 26mins
30 ISI- No return
60 FF- No blow
15 FSI- No return

Rec 2' Feet of WCM %gas %oil 2 %water 98 %mud
Rec Feet of %gas %oil %water %mud
Rec Feet of %gas %oil %water %mud
Rec Feet of %gas %oil %water %mud
Rec Feet of %gas %oil %water %mud

Rec Total 2 BHT 91 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1817
(B) First Initial Flow 18
(C) First Final Flow 19
(D) Initial Shut-In 871
(E) Second Initial Flow 20
(F) Second Final Flow 20
(G) Final Shut-In 57
(H) Final Hydrostatic 1748

Initial Open 45
Initial Shut-In 30
Final Flow 60
Final Shut-In 15

☒ Test 1150
☒ Jars 250
☒ Safety Joint 75
☒ Circ Sub NA
☐ Hourly Standby
☒ Mileage 76 RTX2 235.60
☐ Sampler
☒ Straddle 600
☒ Shale Packer 250
☐ Extra Packer
☐ Extra Recorder
☐ Day Standby
☐ Accessibility
Sub Total 2560.60

T-On Location 19:45
T-Started 20:38
T-Open ~~21:21~~ 22:14
T-Pulled 00:41
T-Out 2:45
Comments

☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total 0
Total 2560.60
MP/DST Disc't

Approved By Our Representative [signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

ALLIED
OIL & GAS SERVICES, LLC

ORIGINAL

INVOICE

PO Box 93999
Southlake, TX 76092

Voice: (817) 546-7282
Fax: (817) 246-3361

Invoice Number: 133373
Invoice Date: Oct 31, 2012
Page: 1

1967 2012 45 YEARS

Bill To:

Prairie Fire Petroleum, LLC
P O Box 38
Norton, KS 67654

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
PraiFire	Gill #1-22	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS2-01	Russell	Oct 31, 2012	11/30/12

Quantity	Item	Description	Unit Price	Amount
200.00	MAT	Class A Common	17.90	3,580.00
4.00	MAT	Gel	23.40	93.60
7.00	MAT	Chloride	64.00	448.00
216.60	SER	Cubic Feet	2.48	537.15
859.56	SER	Ton Mileage	2.60	2,234.86
1.00	SER	Surface	1,512.25	1,512.25
87.00	SER	Pump Truck Mileage	7.70	669.90
87.00	SER	Light Vehicle Mileage	4.40	382.80
1.00	SER	Rig Time Credit	1,225.00	-1,225.00
1.00	EQUIP OPER	Woody O'Neil		
1.00	OPER ASSIST	Kevin Weighous		
1.00	EQUIP OPER	Robert Yakubovich		

PAID 11/7/12
CHECK#: 1949

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

$ 2459.23

ONLY IF PAID ON OR BEFORE
Oct 31, 2012

Subtotal	8,233.56
Sales Tax	290.57
Total Invoice Amount	8,524.13
Payment/Credit Applied	
TOTAL	**8,524.13**

$ 2,459.23
$ 6,064.90

ALLIED OIL & GAS SERVICES, LLC 056568

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Russell KS

DATE 10-31-12	SEC 22	TWP. 3	RANGE 23	CALLED OUT	ON LOCATION	JOB START 9:30 Am	JOB FINISH 10:00 AM
LEASE Gill	WELL# 1-22		LOCATION Norton KS 3½ S Winto			COUNTY Norton	STATE KS
OLD OR (NEW) (Circle one)							

7.05

2.01

CONTRACTOR Integrity Drilling #7 OWNER

TYPE OF JOB Surface

HOLE SIZE 12¼ T.D. 320

CASING SIZE 8⅝ 23# DEPTH 316.42

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 1.5

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT 19 bbl

CEMENT

AMOUNT ORDERED 200 com 3%cc 2%gel

COMMON	200	@ 17.90	3580.00
POZMIX		@	
GEL	4	@ 23.40	93.60
CHLORIDE	7	@ 64.00	448.00
ASC		@	
HANDLING	216.60 ft³	@ 2.48	537.15
MILEAGE	859.56 t/m	2.60	2234.86

TOTAL 6893.61

EQUIPMENT

PUMP TRUCK CEMENTER Robert Y
417 HELPER Woody O
BULK TRUCK
410 DRIVER Kevin W
BULK TRUCK
DRIVER

REMARKS:

ran 7 jts of new 8⅝ 23# csg, recieved circulation mixed 200 com 3%cc 2%gel displace 19 bbl of water shut in

cement did circulate to surface.

Thank you!!

SERVICE

DEPTH OF JOB			320 ft
PUMP TRUCK CHARGE			1512.25
EXTRA FOOTAGE		@	
MILEAGE	87 HVMI	@ 7.70	669.90
MANIFOLD		@	
	87 LVMI	@ 4.40	382.80

TOTAL 2564.95

CHARGE TO: Prairie Fire Petroleum

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

TOTAL Ø

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) 290.57

TOTAL CHARGES 9458.56

DISCOUNT 2459.23 IF PAID IN 30 DAYS

RIG Time – 1225.00 BS 10-31

Net 5774.33

PRINTED NAME Jeff Morris

SIGNATURE Jeff Morris

CONSOLIDATED
Oil Well Services, LLC

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 254281

Invoice Date: 11/12/2012 Terms: 10/10/30,n/30

Page 1

PRAIRIE FIRE PETROLEUM, LLC
P.O. BOX 38
NORTON KS 67654-0038
(785)874-4840

GILL 1-22
39114
22-3-23
11-07-2012
KS

ORIGINAL

Part Number	Description	Qty	Unit Price	Total
1131	60/40 POZ MIX	230.00	15.1000	3473.00
1118B	PREMIUM GEL / BENTONITE	791.00	.2500	197.75
1107	FLO-SEAL (25#)	58.00	2.8200	163.56
4432	8 5/8" WOODEN PLUG	1.00	96.0000	96.00

Sublet Performed	Description	Total
9996-130	CEMENT MATERIAL DISCOUNT	-393.03
9995-130	CEMENT EQUIPMENT DISCOUNT	-250.86

	Description	Hours	Unit Price	Total
399	P & A NEW WELL	1.00	1325.00	1325.00
399	EQUIPMENT MILEAGE (ONE WAY)	55.00	5.00	275.00
566	TON MILEAGE DELIVERY	1.00	908.60	908.60

PAID 11/15/12
CHECK #: 1965

Amount Due 6716.00 if paid after 12/12/2012

Parts:	3930.31	Freight:	.00	Tax:	249.38	AR	6044.40
Labor:	.00	Misc:	.00	Total:	6044.40		
Sublt:	-643.89	Supplies:	.00	Change:	.00		

Signed _____ Date _____

CONSOLIDATED
Oil Well Services, LLC S

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 39114
LOCATION Oakley, KS
FOREMAN Kelly Gabel

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-7-12	6404	Gill #1-22	22	3	23	Norton KS

CUSTOMER: Prairie fire petro.
MAILING ADDRESS:
CITY: STATE: ZIP CODE:

Norton 45 winto

TRUCK #	DRIVER	TRUCK #	DRIVER
399	DamonM		
566	TravisW		

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH ____ CASING SIZE & WEIGHT ____
CASING DEPTH ____ DRILL PIPE ____ TUBING ____ OTHER ____
SLURRY WEIGHT ____ SLURRY VOL ____ WATER gal/sk ____ CEMENT LEFT in CASING ____
DISPLACEMENT ____ DISPLACEMENT PSI ____ MIX PSI ____ RATE ____

REMARKS: Safety meeting, rigged up on integrity drilling, mixed cement plugs & displaced. Washed out pumps & lines, rigged down
25 sks @ 3742
25 sks @ 2040
100 sks @ 1355
40 sks @ 370
10 @ 40
30 RH

Thank You
Kelly & Crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1325.00	1325.00
5406	55	MILEAGE	5.00	275.00
1131	230 sks	60/40 Poz	15.10	3473.00
1118B	791#	Bentonite	.25	197.75
1107	58#	Flo-seal	2.82	163.56
5407A	9.89	Ton mileage delivery	1.67	908.60
4432	1	8 5/8 wooden Plug	96.00	86.00
				6438.91
		Less 10% disc		643.89
				5795.02
			SALES TAX	249.38
			ESTIMATED TOTAL	6044.40

Ravin 3737

11:30 AM
AUTHORIZTION Jeff Martin TITLE ____ DATE 11-7-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

254281

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

CHRIS A. BEAN
CONSULTING PETROLEUM GEOLOGIST
543 W. 1ST
PARK, KANSAS 67647
913-623-2061 / 913-623-2062 (DEPARTMENT)

COMPANY	PRAIRIE FIRE PET.
LEASE	GILL # 1-22
FIELD	UNNAMED
LOCATION	22-33S-23W 1980FNL 2020FEL
SEC.	NORTH SW 1/4
COUNTY	NORTON STATE KANSAS
CONTRACTOR	FINERTY #7
SPD.	10/30/12 COMP. 11/5/2012
PTD.	3800 LTD 3800
ELEV. UP	3200 TYPE MUD CHEMICAL
SAMPLES SAVED FROM	3200 TO TD
DRILLING TIME KEPT FROM	3200 TO TD
SAMPLES EXAMINED FROM	3200 TO TD
GEOLOGICAL SUPERVISION FROM	3300 TO TD
GEOLOGIST ON WELL	CHRIS A. BEAN

ELEVATIONS: KB 2457' DF GL 2449

MEASUREMENTS ARE ALL FROM KB

SURFACE CASING: 8 5/8" @ 220' W/ 150 SXS

PRODUCTION CASING: NONE

ELECTRICAL SURVEYS: D-DL-MICRO

FORMATION TOPS	LOG	SAMPLES
Topeka	3348	
Heebner	3492 (-1034)	
Toronto	3514 (-1056)	
Lansing	3534 (-1076)	
Stark	3777 (-1319)	
BKC	3719 (-1261)	
Reagan Ss	3747 (-1289)	
Granite Wash	3762 (-1304)	
Granite	3784 (-1326)	
TD	3800	

Run Gamma Sonic Trace Porosity Log

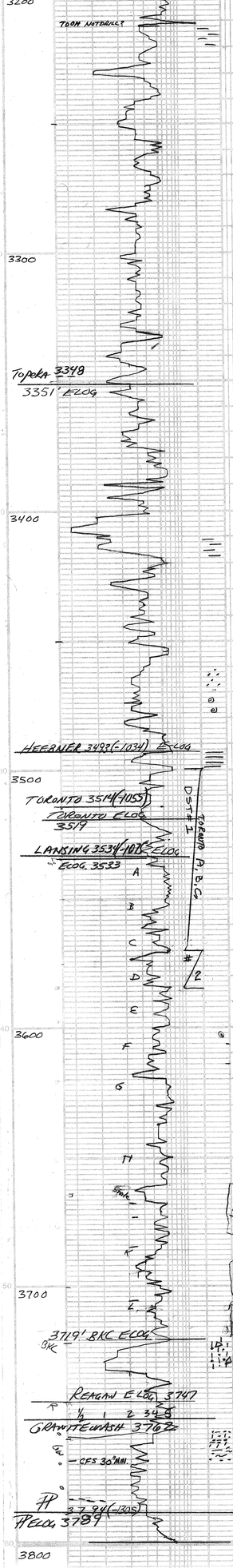
DST #1 3500-3533 30-60-75-90 Rec. 2' Mud IH 1877-1748 IFP 18-19# ISIP 871 FFP 20-20 FSIP 57# HYD 30"-60"-75"

Topeka 3348 (-891) Gill 1 22-4N-23W

R.P.F. 15-137-20625

REMARKS: DUE TO DST INFORMATION & LOG ANALYSIS I WAS RECOMEND TO P&A. THIS WELL. THIS WAS AGREED TO BY ALL PARTIES INVOLVED AT THE TIME TO MAKE THIS DECISION.

Very Sincerly
Chris Bean
Geologist 11/5/2012



LITHOLOGY (LAGGED)	REMARKS
LS: LT. GY/OW. DNS. NVP.	MUD 3194
TRACE FOSS. INCL. NS.	11-2-12
LM: DK GY. CAC INCL. DXLNP. D.O. VSKALE NS	MW. 8.6# VIS 42
LM: LT. GY. M. DNS. PYLNP.	YP 15 CL-1000
AGG. INCL. NO NS	NO LCM
LS: GRM. FOSS FRAG. PYP. NOD. BRT. PYLNP NS.	
LS: OW/CRM SLTY NVP. NO. NS.	
CRM. DNS. BRT. NVP. NO. NS.	
CRM. TAN. DNS. PYLP. NO NS.	
BRN/CRM. M DNS. FRI. SUCROS. NS.	
A.A.	
A.A.	
LM: OW. LT. GY. CHALKY NVP. N.S.	
AS. ABOVE.	
AS. ABOVE.	
CRM. OW. OOL. CAC INC. NS.	
OW/ GY. BRT. CALCITIC. NS.	
LS: SOFT. Chalky clay OW LIME. NS.	
LS: OOLITIC. CRM PYLNP DNS. NS.	
LM: GY SUCROSE. FRI. PINK Δa fiaring NS	
LS: OW/LT. GY. DNS NVP. CALCITE. NO. NS.	
BRN. SUCR. FRI. PYLNP. NO NS.	
OW-LT. GY. CHALKY NVP.	
SHALEY RED/GRN. W/ BRN. DNS. LM. SILTY RED.	
LM. CRM/OW. FOSS BRYAZOANS CHRT FRAG	
CRM. SOFT. PYLNP. W/ DNS GREEN BLNT Δa Chalky NS.	
LM: BRN/CRM SLI. SUC. FRAGE. NS.	
SAME AS ABOVE	@3454 11-3-12 MW. 8.7
LM: OOLITIC. CALKY SOFT. TR. VFG SS RHOWS. N.S	VIS 55 YP 17
LM. CRM DNS NVP.	CL-1600
OOLITIC	
LM. Chalky soft. CRM	
SHALE BLACK CARB.	
	3500 11/5/12 5pm
LM: OW. SFO. CRISH CUT M DNS. PPP-P.F PAIR YEL IM. STRONG MILKYCUT	
LM: DNS. BRT. PYLNP SFO 1 PC M.A. CRUM OIL BEAD SCATTR. VUGS.	11-4-12 DST#2
LM: DNS. BRT. OW. NVP. NO SHOW	3500-70'
LM: DNS. WHT. NVP. NO OOL. NO SHOW	BOB IN 18" NO BB. BOB IN 33" NO BOW BACK.
OW. M DNS SFO TR. VUGS. CRUSH CUT. WEAK SHOW.	35S' MCW IH 1737-1681
OW. M DNS. TR. WEATH. PORO. SFO	F 23-104# ISIP 943#
	FF 109-180 FSIP 844#
LM: OW LT. GY. GRN TR. FOS DNS. PYLNP. NS	
A.S ABOVE	MUD 11/4/12 9.1 / 76 VIS
LM: OW DNS. VNS FO TRACE TISH	
TAN. DNS CHERTY NVP. NS.	11-5-12
LM: LT. GY TAN SST OOLITIC DNS.	DST NO2, 3565-85 D ZONE
BRN. DNS. OOLITIC. SULIN. N.S.	IF 30" 7 MIN. NBOB N. BOW NS D. BOW. 2' MUD
LM: OW. BLKY DNS. PYLNP NO NS.	IH 1877-1748
LM: OW BLKY DNS PYLNP N.S.	IF 18-19# ISIP 871
OW. LM. TR. WEATH. POR. SFO. MUSTY DNS. VWEAK SHOW	FF 20-20 FSIP 57#
OW DNS. PYLNP SSFO very shaly very weak!	HYS 30"-60"-75"
CRM TAN/DNS NVP. PCW Show a.a.	36 07 hr @ 11-5-12 MWD 9.4 78 VIS YP 23 CL-2K
TAN/CRM DNS SLI. OOL. NO SHOW. NO ODOR.	
NS.	
OW/CRM DNS PYLNP WWS 1 PC. OIL BEAD TR. VUG #	
SANDY/LIME 20% SSWSWN LM 70% TAN DNS NO NS.	
LM: W/CLAY 50/50% OW DNS. RED GRN & CLAY NVP TR. IDSTAN	
OW LM DNS 50/50 RED GRN CLAY TR. SS N/TA TR. TR. OOLITIC	
OW LIME NVP. LARGE BROW GRAINS ROUND VAR. COLOR. POR. SOFT and SWEET. NO SHOW	
PINK VERICHERTY LIME STONE SLOW CARBT. NO SHOW	
PINK LIME & GRANITE PINK FELD. / QUAZ	
TD 3800 ELOG 11/5/2012	
TO 3800 RTD	CHRIS BEAN GEO.