



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1147577  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

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
- Plug Back       Conv. to GSW       Conv. to Producer
  
- 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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27     NAD83     WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical 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

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1147577

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Forestar Petroleum Corporation
Well Name	G. Snyder 1-10
Doc ID	1147577

All Electric Logs Run

Sonic Cement Bond Log
Microresistivity Log
Dual Induction Log
Dual Compensated Porosity Log

Form	ACO1 - Well Completion
Operator	Forestar Petroleum Corporation
Well Name	G. Snyder 1-10
Doc ID	1147577

Tops

Name	Top	Datum
Anhydrite	2202	607
Topeka	3688	-879
Toronto	3946	-1137
Lansing	3968	-1159
BKC	4307	-1498
Pawnee	4421	-1612
Cherokee	4467	-1658
Mississippian	4569	-1760

Form	ACO1 - Well Completion
Operator	Forestar Petroleum Corporation
Well Name	G. Snyder 1-10
Doc ID	1147577

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	9	15% MCA - 650 gal	4543-4548, 4536-4540
		20% NEFE - 2500 gal	
4	13	15% MCA - 950 gal	4508-4518, 4491-4494
		20% NEFE - 3800 gal	
4	9	15% MCA - 675 gal	4473-4478, 4458-4462
		20% NEFE - 2700 gal	



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Forestar Petroleum  
 1801 Broadway #900  
 Denver, Co 80202  
 ATTN: Mac Armstrong

**10-17s-29w Lane Ks**  
**Snyder G 1-10**  
 Job Ticket: 51354      **DST#: 1**  
 Test Start: 2013.04.13 @ 03:43:03

## GENERAL INFORMATION:

Formation: **Lansing E&F**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:44:58  
 Time Test Ended: 10:56:27  
 Interval: **4048.00 ft (KB) To 4066.00 ft (KB) (TVD)**  
 Total Depth: 4066.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 2809.00 ft (KB)  
 2804.00 ft (CF)  
 KB to GR/CF: 5.00 ft

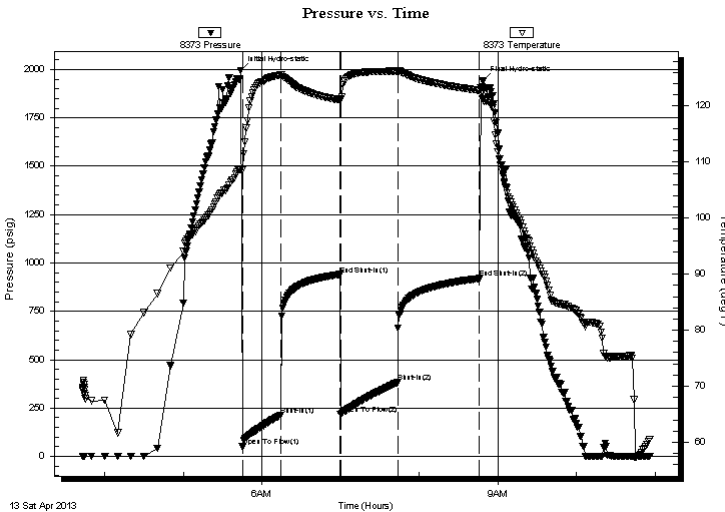
## Serial #: 8373

Inside

Press @ Run Depth: 382.86 psig @ 4049.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.04.13      End Date: 2013.04.13      Last Calib.: 2013.04.13  
 Start Time: 03:43:03      End Time: 10:56:27      Time On Btm: 2013.04.13 @ 05:43:58  
 Time Off Btm: 2013.04.13 @ 08:48:27

TEST COMMENT: IF: 1/4 blow BOB in 7 min.  
 IS: Surface blow built to 1/2 in 45 min.  
 FF: 1/4 blow BOB in 9 min.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1995.18	108.65	Initial Hydro-static
1	49.87	108.68	Open To Flow (1)
30	213.58	125.54	Shut-In(1)
76	940.51	121.09	End Shut-In(1)
76	216.98	121.26	Open To Flow (2)
120	382.86	126.25	Shut-In(2)
182	919.66	122.81	End Shut-In(2)
185	1939.79	121.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
252.00	water 100%w	2.41
315.00	mcw 90%w 10%m	4.42
220.00	mw 50%w 50%m	3.09

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Forestar Petroleum

**10-17s-29w Lane Ks**

1801 Broadway #900  
Denver, Co 80202

**Snyder G 1-10**

Job Ticket: 51354

**DST#: 1**

ATTN: Mac Armstrong

Test Start: 2013.04.13 @ 03:43:03

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

85000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
252.00	water 100%w	2.405
315.00	mcw 90%w 10%m	4.419
220.00	mw 50%w 50%m	3.086

Total Length: 787.00 ft      Total Volume: 9.910 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .13@53=85000

Serial #: 8373

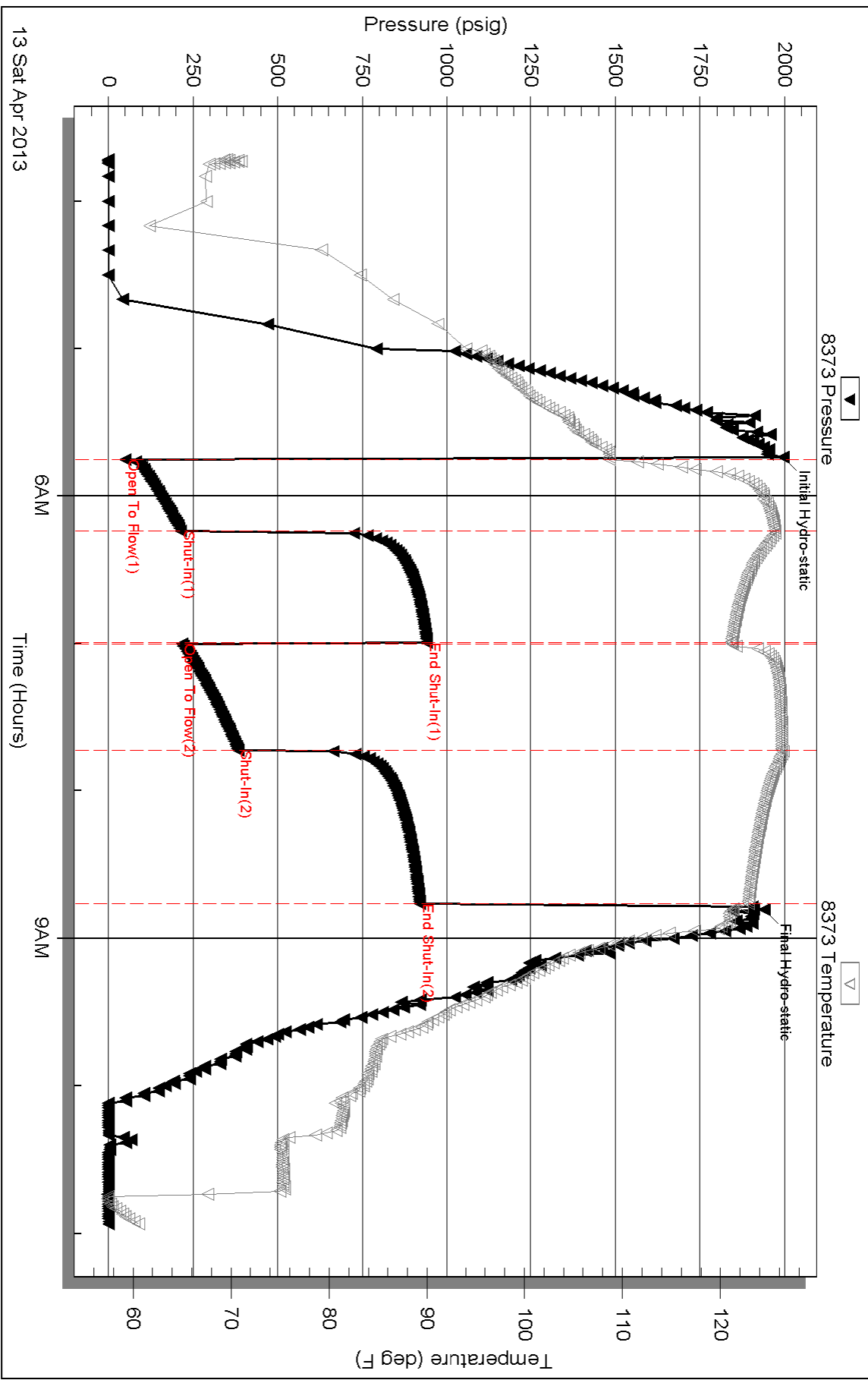
Inside

Forestar Petroleum

Snyder G-1-10

DST Test Number: 1

# Pressure vs. Time



Triobite Testing, Inc

Ref. No: 51354

Printed: 2013.04.13 @ 23:10:40





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Forestar Petroleum

**10-17s-29w Lane Ks**

1801 Broadway #900  
Denver, Co 80202

**Snyder G 1-10**

Job Ticket: 51355

**DST#: 2**

ATTN: Mac Armstrong/ Harle

Test Start: 2013.04.14 @ 02:18:19

## GENERAL INFORMATION:

Formation: **Lansing HIJ**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:28:19

Time Test Ended: 08:51:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

**Interval: 4117.00 ft (KB) To 4215.00 ft (KB) (TVD)**

Reference Elevations: 2809.00 ft (KB)

Total Depth: 4215.00 ft (KB) (TVD)

2804.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8373 Inside**

Press @ Run Depth: 518.85 psig @ 4122.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.14

End Date:

2013.04.14

Last Calib.:

2013.04.14

Start Time: 02:18:24

End Time:

08:51:18

Time On Btm:

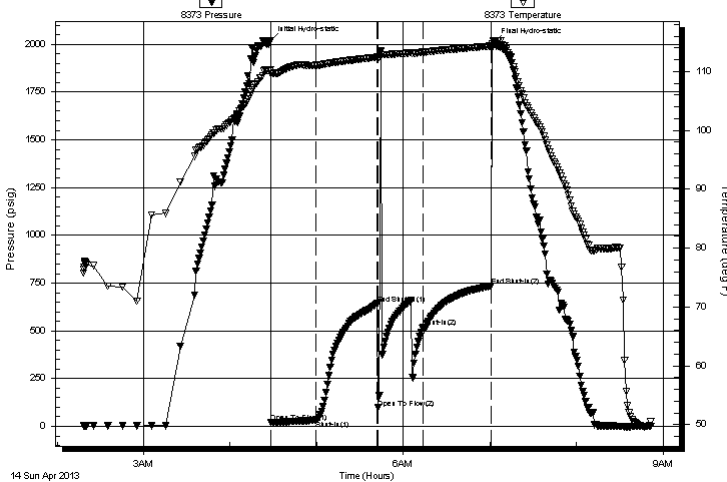
2013.04.14 @ 04:27:49

Time Off Btm:

2013.04.14 @ 07:02:49

**TEST COMMENT:** IF: 1/4 blow died in 8 min.  
IS: No return.  
FF: No blow. Flushed tool no blow.  
FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2018.47	110.28	Initial Hydro-static
1	19.84	109.66	Open To Flow (1)
32	32.08	111.05	Shut-In(1)
74	641.76	112.43	End Shut-In(1)
75	96.46	112.05	Open To Flow (2)
106	518.85	113.29	Shut-In(2)
153	734.75	114.32	End Shut-In(2)
155	2006.98	115.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud show of oil 100% m	0.05

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Forestar Petroleum

**10-17s-29w Lane Ks**

1801 Broadway #900  
Denver, Co 80202

**Snyder G 1-10**

Job Ticket: 51355

**DST#: 2**

ATTN: Mac Armstrong/ Harle

Test Start: 2013.04.14 @ 02:18:19

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	mud show of oil 100%m	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8373

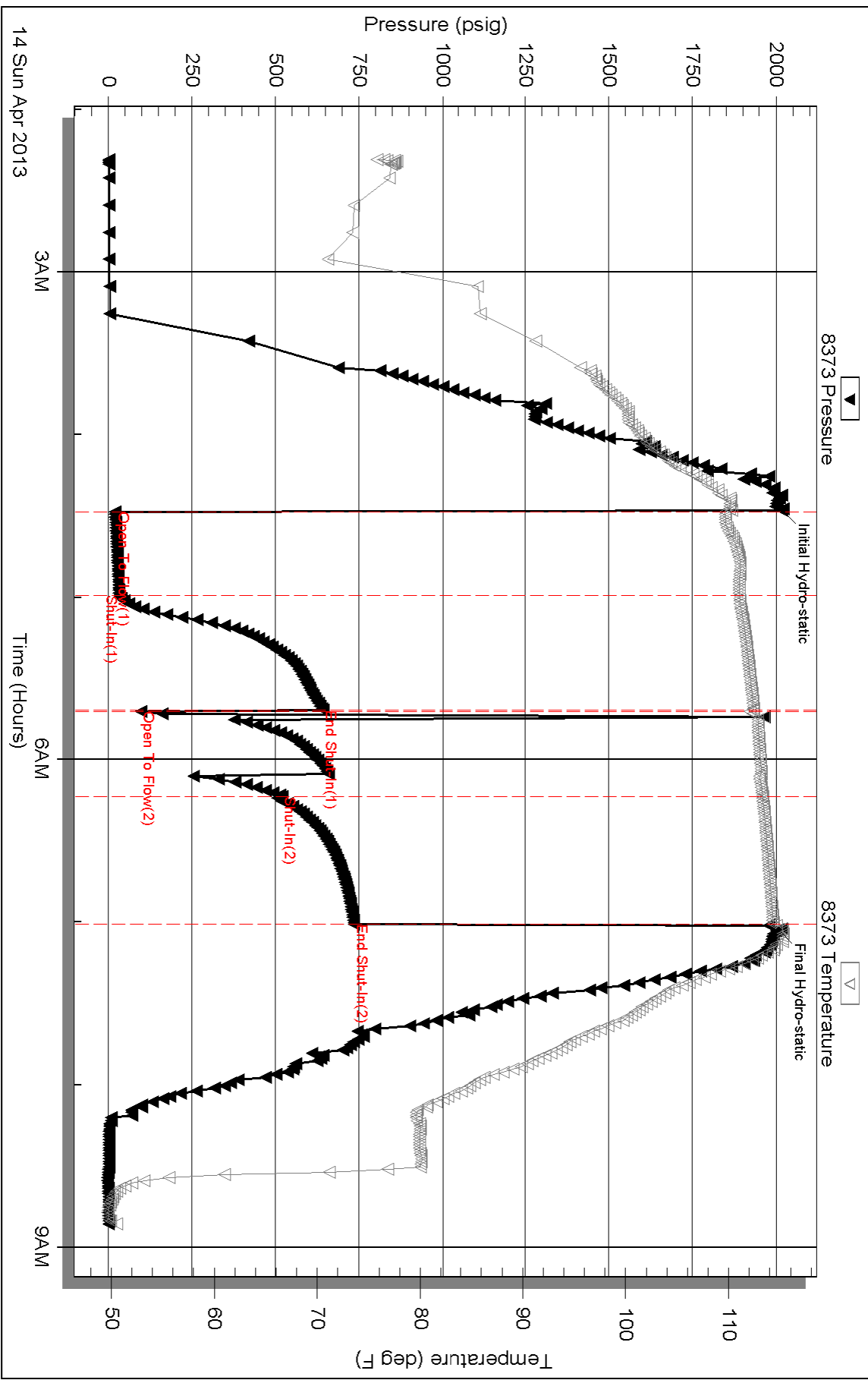
Inside

Forestar Petroleum

Snyder G-1-10

DST Test Number: 2

### Pressure vs. Time





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Forestar Petroleum

**10-17s-29w Lane Ks**

1801 Broadway #900  
Denver, Co 80202

**Snyder G 1-10**

Job Ticket: 51356

**DST#: 3**

ATTN: Mac Armstrong/ Harle

Test Start: 2013.04.15 @ 04:26:34

## GENERAL INFORMATION:

Formation: **Lansing KLM**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:28:04

Time Test Ended: 11:57:04

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

**Interval: 4216.00 ft (KB) To 4384.00 ft (KB) (TVD)**

Reference Elevations: 2809.00 ft (KB)

Total Depth: 4384.00 ft (KB) (TVD)

2804.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8373**

**Inside**

Press @ Run Depth: 229.88 psig @ 4221.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.15

End Date:

2013.04.15

Last Calib.:

2013.04.15

Start Time:

04:26:39

End Time:

11:57:03

Time On Btm:

2013.04.15 @ 06:27:04

Time Off Btm:

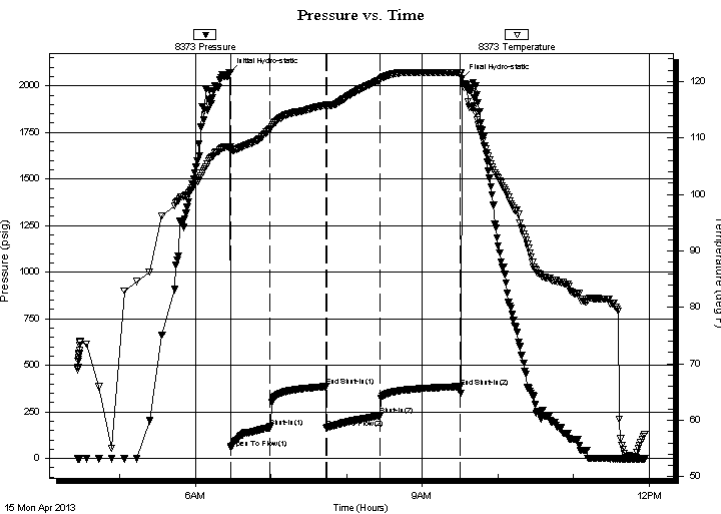
2013.04.15 @ 09:31:34

TEST COMMENT: IF: 1/4 blow BOB in 9 min.

IS: No return.

FF: Surface blow BOB in 22 min.

FS No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2072.15	108.47	Initial Hydro-static
1	56.69	107.78	Open To Flow (1)
32	166.35	111.57	Shut-In(1)
77	385.60	115.82	End Shut-In(1)
77	163.48	115.70	Open To Flow (2)
120	229.88	120.31	Shut-In(2)
183	385.29	121.53	End Shut-In(2)
185	2038.42	120.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 90%w 10%m	0.61
63.00	mcw 70%w 30%m	0.88
189.00	ocw m 10%o 10%w 80%m	2.65
20.00	ocm 30%o 70%m	0.28
10.00	oil 100%o	0.14

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Forestar Petroleum

**10-17s-29w Lane Ks**

1801 Broadway #900  
Denver, Co 80202

**Snyder G 1-10**

Job Ticket: 51356

**DST#: 3**

ATTN: Mac Armstrong/ Harle

Test Start: 2013.04.15 @ 04:26:34

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	mcw 90%w 10%m	0.610
63.00	mcw 70%w 30%m	0.884
189.00	ocw m 10%o 10%w 80%m	2.651
20.00	ocm 30%o 70%m	0.281
10.00	oil 100%o	0.140

Total Length: 406.00 ft      Total Volume: 4.566 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .19@54=50000

Serial #: 8373

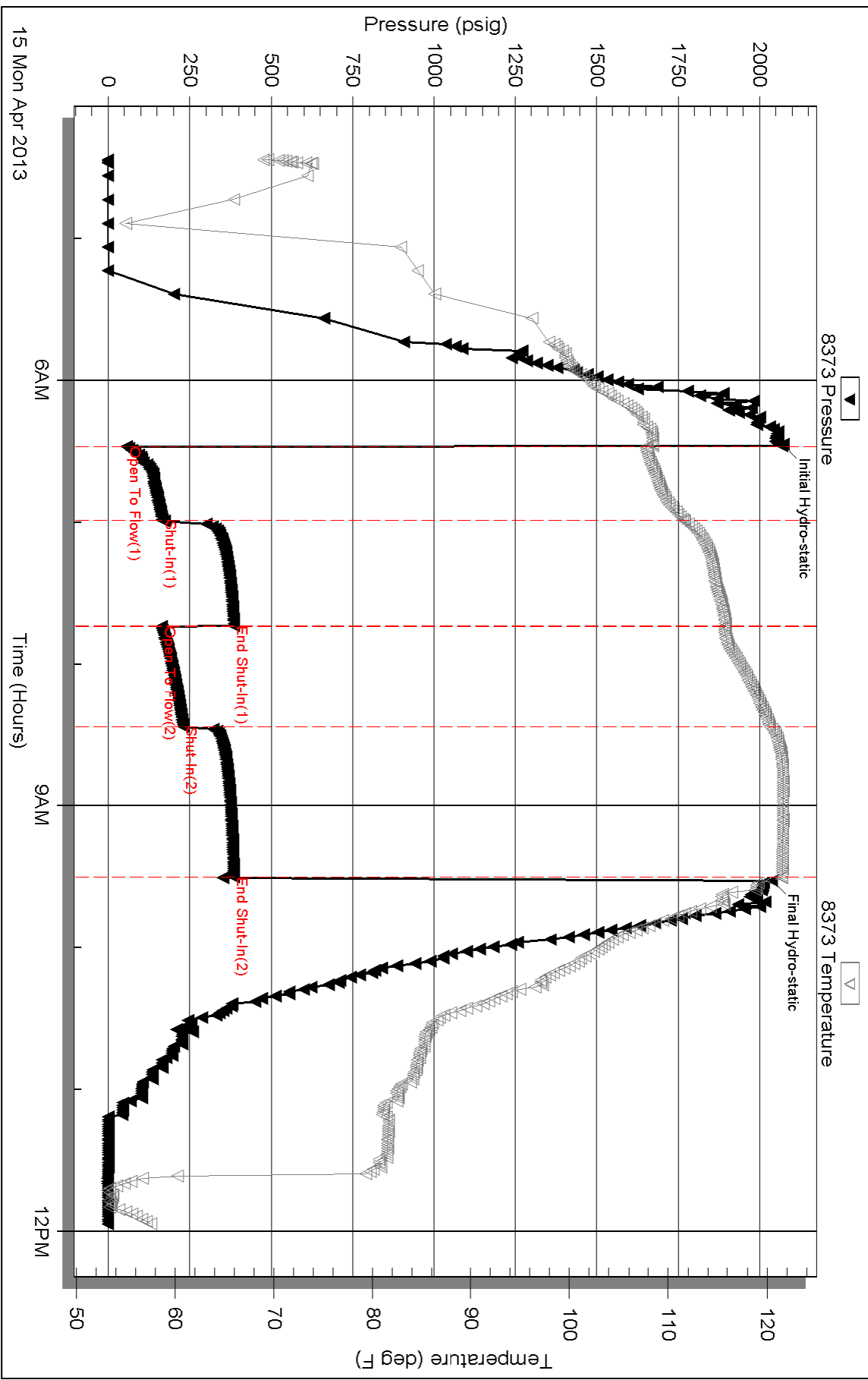
Inside

Forestar Petroleum

Snyder G-1-10

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 51356

Printed: 2013.04.15 @ 13:01:21



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Forestar Petroleum

**10-17s-29w Lane Ks**

1801 Broadway #900  
Denver, Co 80202

**G Snyder 1-10**

Job Ticket: 51357

**DST#: 4**

ATTN: Mac Armstrong/ Harle

Test Start: 2013.04.16 @ 02:52:48

## GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:49:18

Time Test Ended: 10:36:18

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

**Interval: 4382.00 ft (KB) To 4472.00 ft (KB) (TVD)**

Reference Elevations: 2809.00 ft (KB)

Total Depth: 4472.00 ft (KB) (TVD)

2804.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8373 Inside**

Press @ Run Depth: 78.68 psig @ 4387.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.16

End Date:

2013.04.16

Last Calib.:

2013.04.16

Start Time: 02:52:53

End Time:

10:36:17

Time On Btm:

2013.04.16 @ 04:48:18

Time Off Btm:

2013.04.16 @ 08:51:48

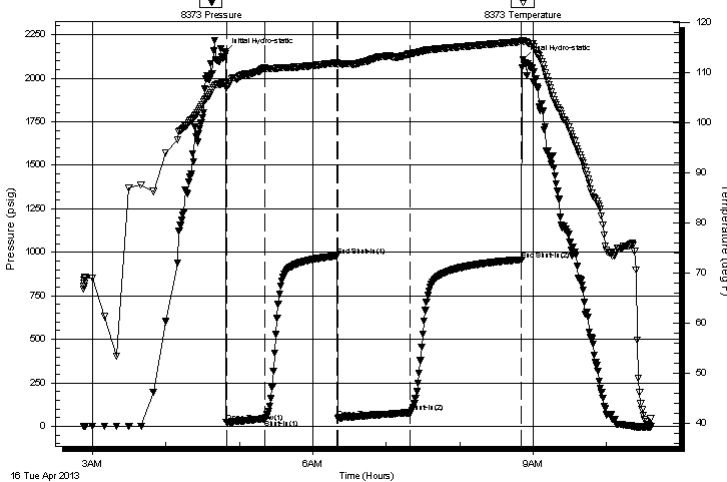
**TEST COMMENT:** IF: 1/4 blow built to 2 in 30 min.

IS: No return.

FF: Surface blow built to 1 in 60 min.

FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.51	107.83	Initial Hydro-static
1	21.69	107.04	Open To Flow (1)
33	43.60	110.80	Shut-In(1)
92	978.97	111.88	End Shut-In(1)
92	48.34	111.58	Open To Flow (2)
151	78.68	113.65	Shut-In(2)
242	957.64	116.12	End Shut-In(2)
244	2106.53	116.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	ocm 2%o 98%m	0.61

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Forestar Petroleum

**10-17s-29w Lane Ks**

1801 Broadway #900  
Denver, Co 80202

**G Snyder 1-10**

Job Ticket: 51357

**DST#: 4**

ATTN: Mac Armstrong/ Harle

Test Start: 2013.04.16 @ 02:52:48

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 4.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	ocm 2%o 98%m	0.610

Total Length: 124.00 ft      Total Volume: 0.610 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8373

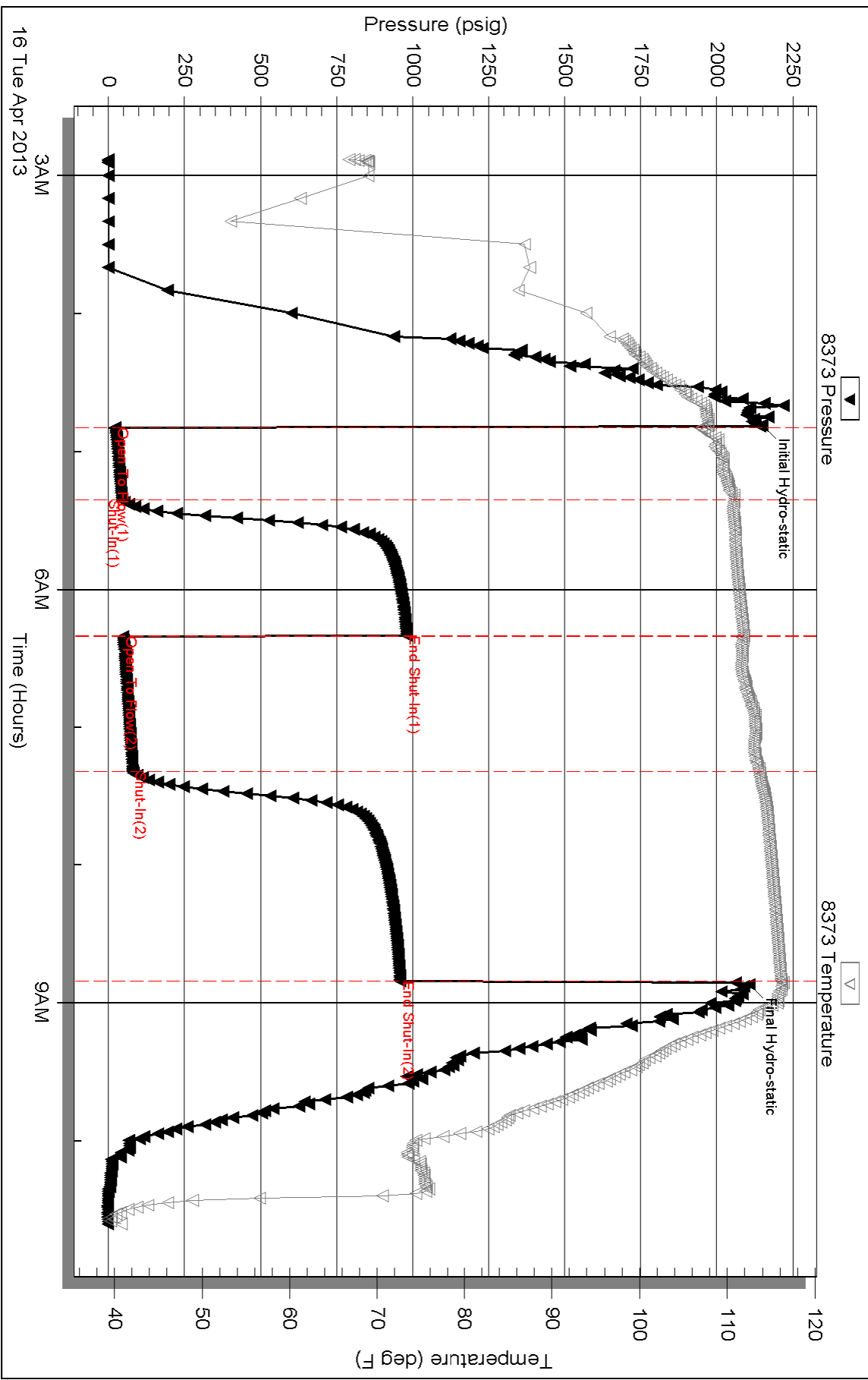
Inside

Forestar Petroleum

G Snyder 1-10

DST Test Number: 4

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 51357

Printed: 2013.04.16 @ 10:53:23



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Forestar Petroleum

**10-17s-29w Lane Ks**

1801 Broadway #900  
Denver, Co 80202

**G Snyder 1-10**

Job Ticket: 51358

**DST#: 5**

ATTN: Mac Armstrong/ Harle

Test Start: 2013.04.16 @ 23:26:05

## GENERAL INFORMATION:

Formation: **Cherokee- Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:04:35

Time Test Ended: 07:28:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 60

Interval: **4466.00 ft (KB) To 4558.00 ft (KB) (TVD)**

Total Depth: 4558.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2809.00 ft (KB)

2804.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8373**

**Inside**

Press @ Run Depth: 195.09 psig @ 4471.00 ft (KB)

Start Date: 2013.04.16

End Date:

2013.04.17

Start Time: 23:26:10

End Time:

07:28:04

Capacity: 8000.00 psig

Last Calib.: 2013.04.17

Time On Btm: 2013.04.17 @ 01:57:35

Time Off Btm: 2013.04.17 @ 05:00:35

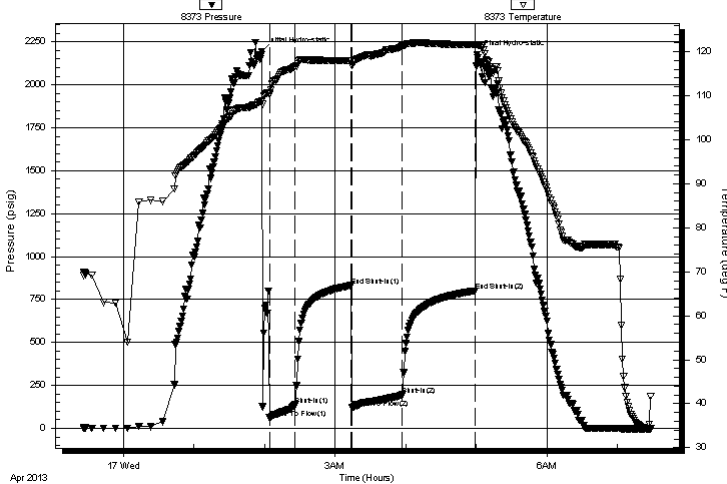
TEST COMMENT: IF: 1/4 blow BOB in 12 min.

IS: No return.

FF: BOB in 9 min.

FS: Surface blow built to 5 in 60 min.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2193.28	108.81	Initial Hydro-static
7	58.42	110.42	Open To Flow (1)
28	135.41	116.54	Shut-In(1)
76	830.86	117.89	End Shut-In(1)
77	119.77	116.86	Open To Flow (2)
120	195.09	121.24	Shut-In(2)
182	800.85	121.53	End Shut-In(2)
183	2175.29	121.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcgo 15%g 55%o 30%m	0.61
315.00	mcgo 10%g 50%o 40%m	4.42
0.00	441 GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Forestar Petroleum

**10-17s-29w Lane Ks**

1801 Broadway #900  
Denver, Co 80202

**G Snyder 1-10**

Job Ticket: 51358

**DST#: 5**

ATTN: Mac Armstrong/ Harle

Test Start: 2013.04.16 @ 23:26:05

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	mcgo 15%g 55%o 30%m	0.610
315.00	mcgo 10%g 50%o 40%m	4.419
0.00	441 GIP	0.000

Total Length: 439.00 ft

Total Volume: 5.029 bbl

Num Fluid Samples: 0

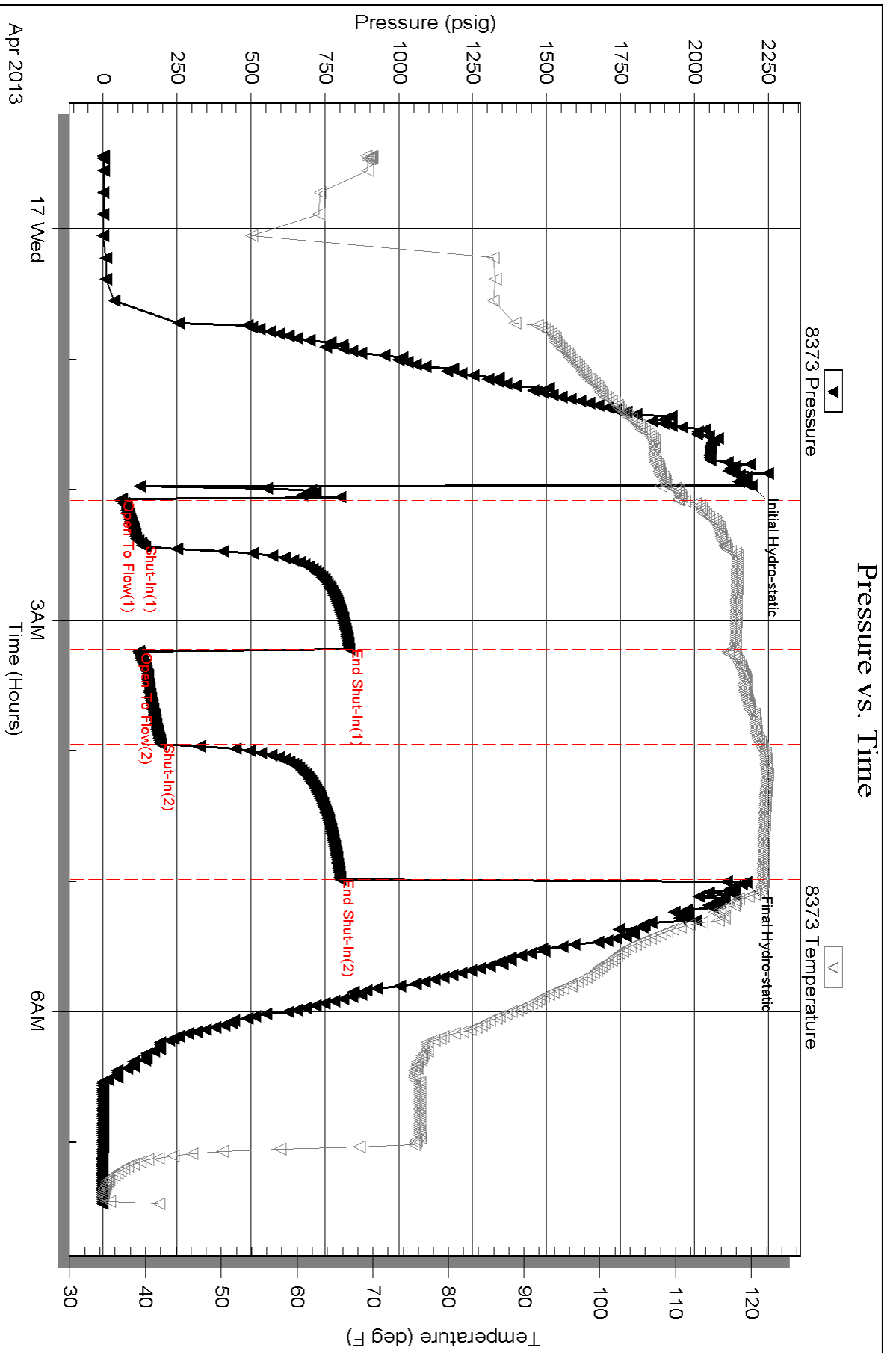
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**CONSOLIDATED**  
Oil Well Services, LLC

258025

TICKET NUMBER 39429

LOCATION Cakley Ks

FOREMAN MILES SHAW  
DAMON MILLER (TRAINING)

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

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-8-13	2930	GEORGE SYNDER #1-10	10	17 S	29 W	LANE
CUSTOMER <u>FORESTAR</u>		Dighton 6 N 2 W	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			405	JORDON		
CITY			460	MIKE P.		
STATE						
ZIP CODE						

JOB TYPE SURFACE HOLE SIZE 12 7/4 HOLE DEPTH 260' CASING SIZE & WEIGHT 8 5/8 23 LB  
 CASING DEPTH 259.11 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL. 1.36 WATER gal/sk \_\_\_\_\_ CEMENT LEFT IN CASING 20'  
 DISPLACEMENT 14 3/4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting rigged up on WNW #8 circ. mud - casing mixed  
175 SKS common class w/ 3% cal 290 gel displaced 14 3/4 barrels of  
water. shut in cleaned pump and rigged down. cement D.O  
circ. approx. 3 barrels to the pit.

THANKS  
DAMON, MILES + CREW

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54019	1	PUMP CHARGE	\$1085.00	\$1085.00
5406	30 miles	MILEAGE	\$5.00	\$150.00
5407	8.22 tons	TON MILEAGE DELIVERY	1.67	411.90
11045	175 SKS	COMMON CLASS A	17.65	3088.75
1102	493 LBS	CALCIUM CHLORIDE	.89	438.77
1118B	329 LBS.	BETONIGHT GEL	.25	82.25
			SUBTOTAL	5256.67
			LESS 10% DISCOUNT	525.67
			SUBTOTAL	4731.00
			SALES TAX	204.67
			ESTIMATED TOTAL	4935.67

completed

Ravin 3737

AUTHORIZATION [Signature]

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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.



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

258166

TICKET NUMBER 39436  
LOCATION Oakley KS  
FOREMAN Miles Shaw

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-18-13	2930	G. Synder #1-10	10	17S	29W	Lane
CUSTOMER <u>Fore Star Petroleum</u>			Dighton KS W to rd 210			
MAILING ADDRESS			2E 1N Easton b			
CITY			STATE			
ZIP CODE			RATE			

JOB TYPE 2 Stage HOLE SIZE 7 7/8 HOLE DEPTH 4670' CASING SIZE & WEIGHT 5 1/2" 15.5#  
 CASING DEPTH 4613 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER Dil tool @ 23/3'  
 SLURRY WEIGHT 14.1/12.5 SLURRY VOL 1.42/1.9 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 16.94'  
 DISPLACEMENT 109% / 50% DISPLACEMENT PSI 200/120 MIX PSI 1400/1400

REMARKS: Safety meeting and rig upon well drilling #8 float equipment  
Centralizers @ 1, 3, 5, 7, 9, 11, 13, 15, 55. Baskets on bottom at 4, 5, 58. Dil tool  
on top of 56 @ 23/3' Marker Spout on top of Spout #1 Bun casing to bottom  
Circulate casing to 45 1/2 hrs. Pumped 56 lbs water 500 gal mud flush 56 lbs water  
mix 60 SWS 60/40 floeal 1/4 floeal treated in with 170 SWS CWC cement ~~less than~~  
68 lb water 100 salt 28 gal. Shut down. Cleared pump & lines released plug displaced 60 lbs  
water and 49 1/2 lbs mud with 800 psi lift plug landed and held @ 1400 psi. Drop dart opened @ 800 psi  
Circulated casing for 30 min. Pump 56 lbs water mix 30 SWS 60/40 with floeal 1/4 floeal shut down  
released plug cleared pump & lines displaced 56 lbs water with 700 psi lift plug and held 1400 psi. Mix  
30 SWS B.H  
Thank to Miles crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3020.00	3020.00
5406	40	MILEAGE	5.00	200.00
5407A	26.48 TONS	Ten miles delivery	1.67	1768.80
1126	170 SWS	OWC	22.55	3833.50
1131	430 SWS	60/40 mud	15.10	6493.00
1110A	850 #	Water	1.56	4761.00
1118B	2958 #	Bentonite	1.25	739.50
1107	107 #	Floer	2.82	301.74
1144G	500 gal	Mud flush	1.00	500.00
4104	3	5 1/2" Baskets W	276.00	828.00
4130	9	5 1/2" Centralizers	58.00	522.00
4159	1	5 1/2" Float Shoe APU	413.00	413.00
4183	1	5 1/2" Dil tool	4800.00	4800.00
4454	1	5 1/2" Latchdown 955mb plug	303.00	303.00
		Subtotal		24198.54
		less 1080 cement		2419.85
		Subtotal		21778.69
		SALES TAX		1089.20
		ESTIMATED TOTAL		22867.89

**Completed**

Ravin 3737

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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.

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

June 13, 2013

Jack Renfro  
Forestar Petroleum Corporation  
1801 BROADWAY # 600  
DENVER, CO 80202-3858

Re: ACO1  
API 15-101-22428-00-00  
G. Snyder 1-10  
SE/4 Sec.10-17S-29W  
Lane County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Jack Renfro