



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1223794  
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
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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: \_\_\_\_\_

1223794

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. 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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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 <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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## DRILL STEM TEST REPORT

Prepared For: **Gra Ex, LLC**

2435 North Marquette  
Kingman KS 67068

ATTN: Jeff Burk-Eli Felts

### **Morris #1**

#### **15-24s-14w Stafford,KS**

Start Date: 2014.09.03 @ 09:48:00

End Date: 2014.09.03 @ 15:57:30

Job Ticket #: 60312                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.08 @ 14:20:32



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Gra Ex, LLC  
2435 North Marquette  
Kingman KS 67068  
ATTN: Jeff Burk-Eli Felts

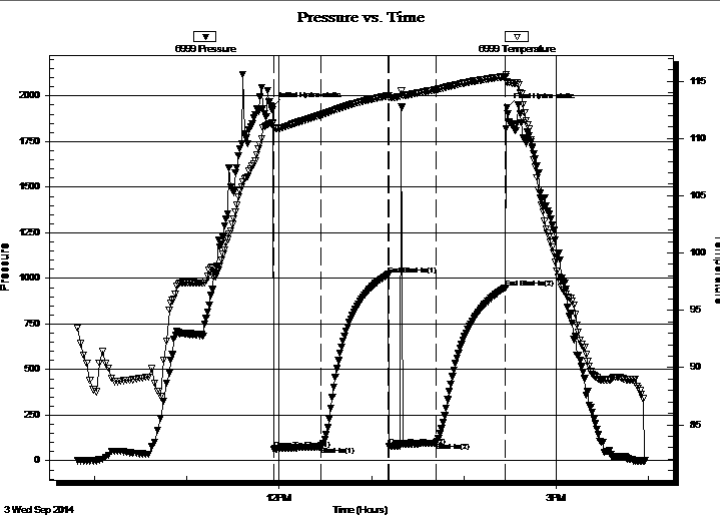
**15-24s-14w Stafford,KS**  
**Morris #1**  
Job Ticket: 60312 **DST#: 1**  
Test Start: 2014.09.03 @ 09:48:00

## GENERAL INFORMATION:

Formation: **LKC H-K**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 11:56:30  
Time Test Ended: 15:57:30  
Interval: **3777.00 ft (KB) To 3866.00 ft (KB) (TVD)**  
Total Depth: 3866.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Dustin Ellis  
Unit No: S2  
Reference Elevations: 1962.00 ft (KB)  
1957.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6999 Inside**  
Press@RunDepth: 100.31 psig @ 3861.46 ft (KB) Capacity: 5000.00 psig  
Start Date: 2014.09.03 End Date: 2014.09.03 Last Calib.: 2014.09.04  
Start Time: 09:49:00 End Time: 15:57:30 Time On Btm: 2014.09.03 @ 11:56:00  
Time Off Btm: 2014.09.03 @ 14:28:00

TEST COMMENT: IFP 30 Weak blow built to 1 1/2"  
ISI 45 No blow back  
FFP 30 Dead ,Flushed tool no help  
FSI45 No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1943.06	111.34	Initial Hydro-static
1	63.60	110.93	Open To Flow (1)
31	77.22	112.05	Shut-In(1)
75	1020.87	113.74	End Shut-In(1)
76	80.08	113.57	Open To Flow (2)
106	100.31	114.27	Shut-In(2)
151	949.38	115.42	End Shut-In(2)
152	1935.62	114.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
67.00	Very lighty oil spotted mud Mud 100%	0.33

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Gra Ex, LLC  
2435 North Marquette  
Kingman KS 67068  
ATTN: Jeff Burk-Eli Felts

**15-24s-14w Stafford,KS**

**Morris #1**

Job Ticket: 60312

**DST#: 1**

Test Start: 2014.09.03 @ 09:48:00

## GENERAL INFORMATION:

Formation: **LKC H-K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:56:30  
 Time Test Ended: 15:57:30  
 Interval: **3777.00 ft (KB) To 3866.00 ft (KB) (TVD)**  
 Total Depth: 3866.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: S2  
 Reference Elevations: 1962.00 ft (KB)  
 1957.00 ft (CF)  
 KB to GR/CF: 5.00 ft

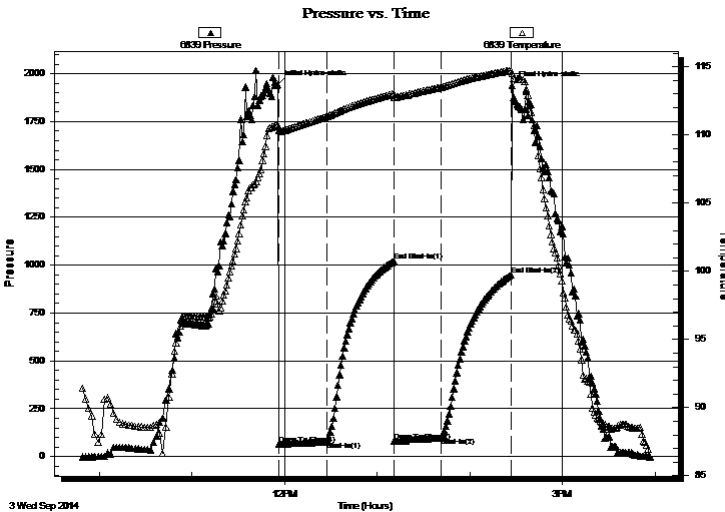
## Serial #: 6839

**Outside**

Press@RunDepth: 948.15 psig @ 3861.46 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.09.03 End Date: 2014.09.03 Last Calib.: 2014.09.04  
 Start Time: 09:49:00 End Time: 15:57:00 Time On Btm: 2014.09.03 @ 11:55:30  
 Time Off Btm: 2014.09.03 @ 14:27:30

TEST COMMENT: IFP 30 Weak blow built to 1 1/2"  
 ISI 45 No blow back  
 FFP 30 Dead ,Flushed tool no help  
 FSI45 No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.67	110.76	Initial Hydro-static
1	63.17	110.30	Open To Flow (1)
32	80.73	111.34	Shut-In(1)
75	1019.64	113.01	End Shut-In(1)
76	79.73	112.75	Open To Flow (2)
106	98.68	113.52	Shut-In(2)
151	948.15	114.74	End Shut-In(2)
152	1939.01	114.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
67.00	Very lighty oil spotted mud Mud 100%	0.33

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Gra Ex, LLC  
2435 North Marquette  
Kingman KS 67068  
ATTN: Jeff Burk-Eli Felts

**15-24s-14w Stafford,KS**  
**Morris #1**  
Job Ticket: 60312 **DST#: 1**  
Test Start: 2014.09.03 @ 09:48:00

**Tool Information**

Drill Pipe:	Length: 3652.00 ft	Diameter: 3.80 inches	Volume: 51.23 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 123.11 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 51.84 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.11 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3777.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	89.46 ft				
Tool Length:	117.46 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut In Tool	5.00			3754.00	
Hydraulic tool	5.00			3759.00	
Jars	6.00			3765.00	
Safety Joint	2.00			3767.00	
Top Packer	5.00			3772.00	
Packer	5.00			3777.00	28.00 Bottom Of Top Packer
Anchor	5.00			3782.00	
Change Over Sub	0.75			3782.75	
Drill Pipe	62.96			3845.71	
Change Over Sub	0.75			3846.46	
Anchor	15.00			3861.46	
Recorder	0.00	6999	Inside	3861.46	
Recorder	0.00	6839	Outside	3861.46	
Bull Plug	5.00			3866.46	89.46 Anchor Tool

**Total Tool Length: 117.46**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Gra Ex, LLC  
2435 North Marquette  
Kingman KS 67068  
ATTN: Jeff Burk-Eli Felts

**15-24s-14w Stafford,KS**  
**Morris #1**  
Job Ticket: 60312      **DST#: 1**  
Test Start: 2014.09.03 @ 09:48:00

## Mud and Cushion Information

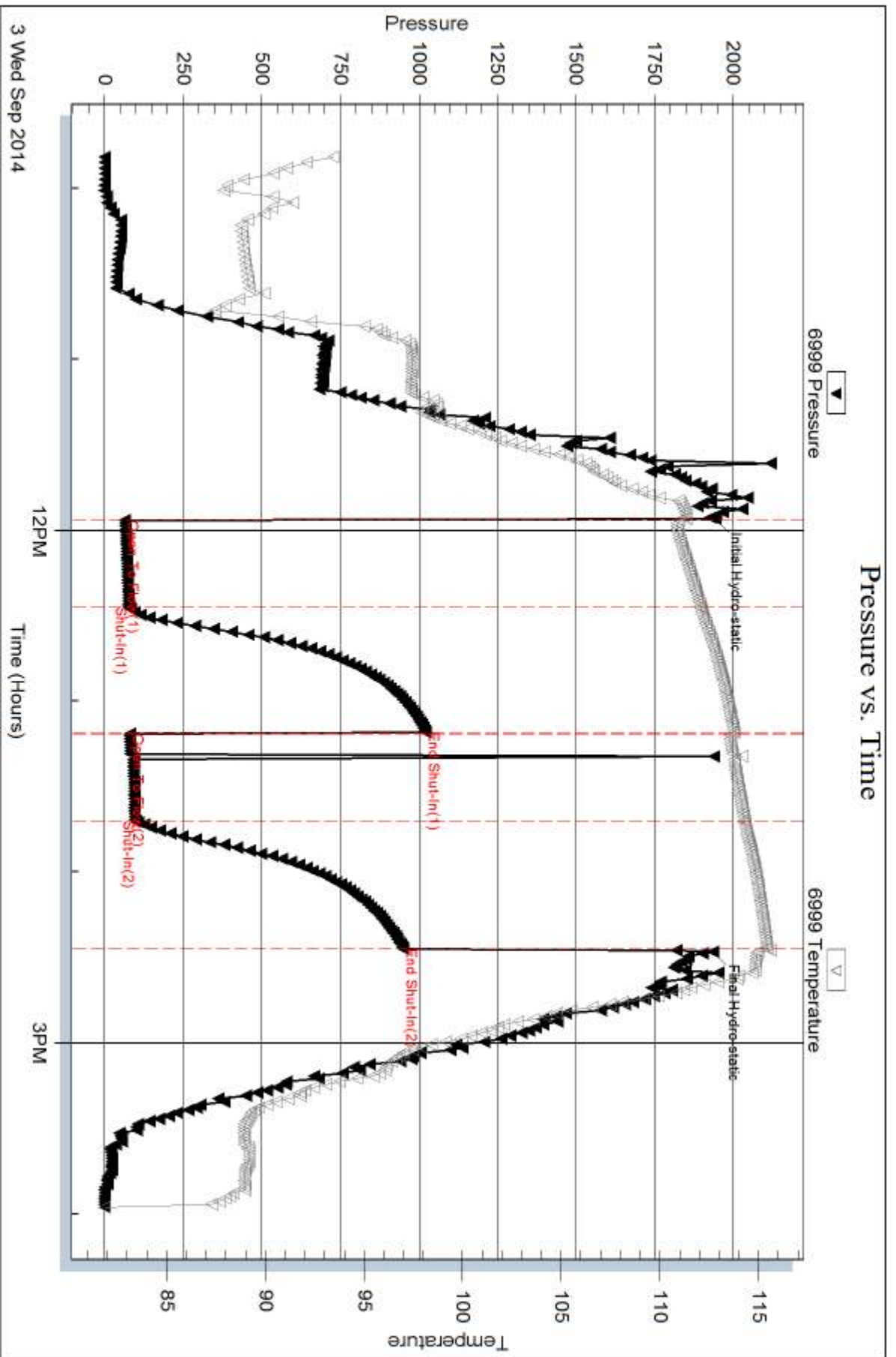
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 10000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

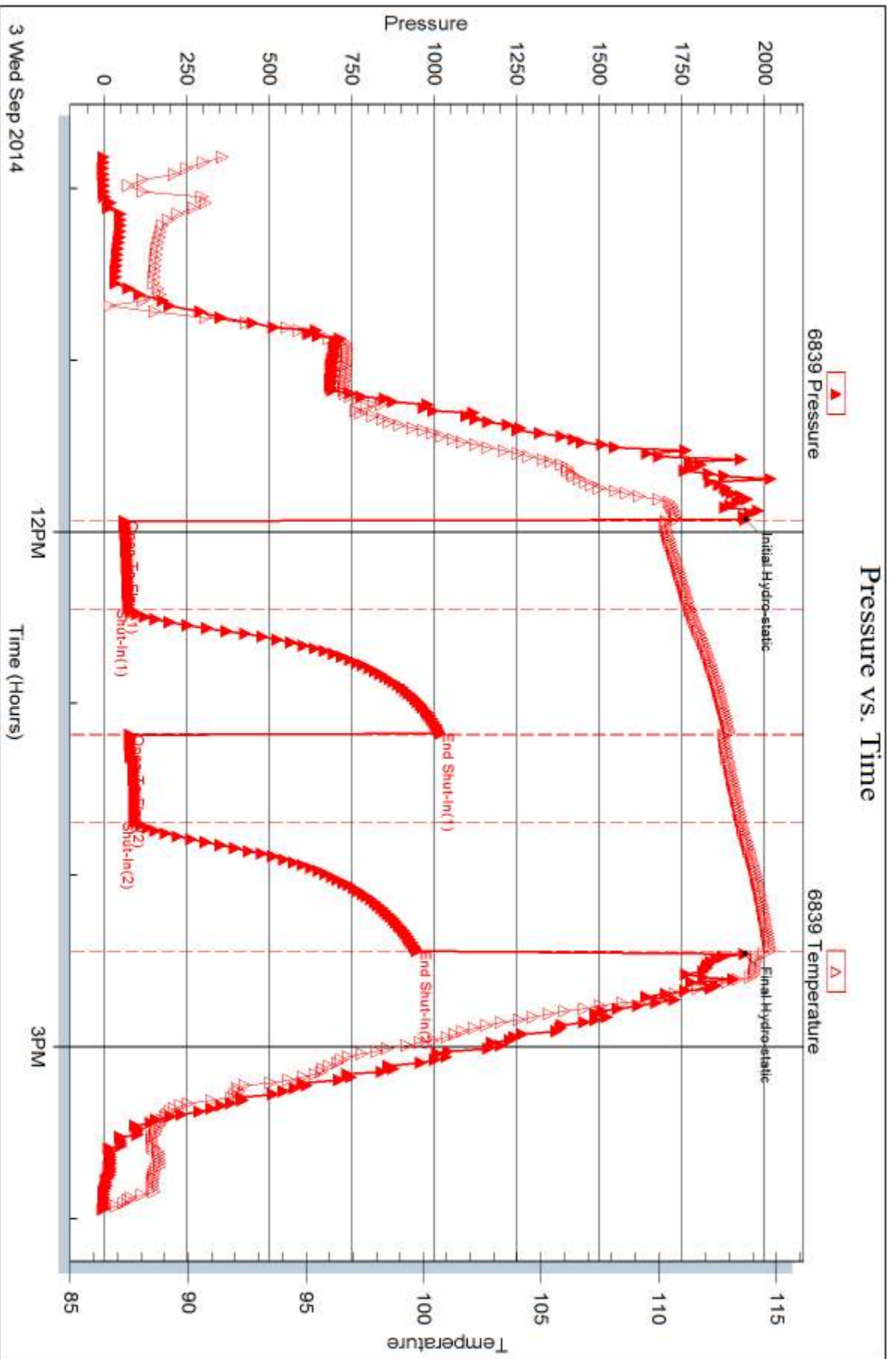
Recovery Table

Length ft	Description	Volume bbl
67.00	Very lighty oil spotted mud Mud 100%	0.329

Total Length: 67.00 ft      Total Volume: 0.329 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Gra Ex, LLC**

2435 North Marquette  
Kingman Kansas 67068

ATTN: Jeff Burk-Eli Felts

### **Morris #1**

#### **15-24s-14w-Stafford**

Start Date: 2014.09.05 @ 01:25:00

End Date: 2014.09.05 @ 07:38:46

Job Ticket #: 60313                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.08 @ 14:10:20



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Gra Ex, LLC  
2435 North Marquette  
Kingman Kansas 67068  
ATTN: Jeff Burk-Eli Felts

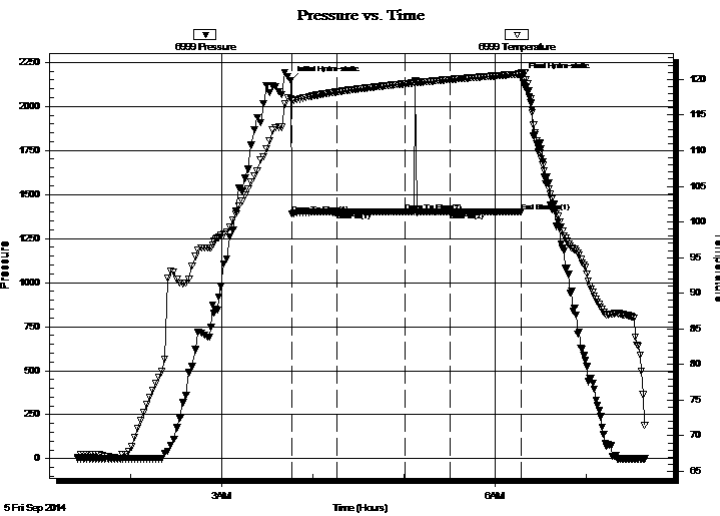
**15-24s-14w-Stafford**  
**Morris #1**  
Job Ticket: 60313      **DST#: 2**  
Test Start: 2014.09.05 @ 01:25:00

## GENERAL INFORMATION:

Formation: **Simpson**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 03:46:16  
Time Test Ended: 07:38:46  
**Interval: 4178.00 ft (KB) To 4197.00 ft (KB) (TVD)**  
Total Depth: 4197.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Dustin Ellis  
Unit No: S2  
Reference Elevations: 1962.00 ft (KB)  
1957.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6999      Outside**  
Press@RunDepth: 1399.44 psig @ 4178.00 ft (KB)      Capacity: 5000.00 psig  
Start Date: 2014.09.05      End Date: 2014.09.05      Last Calib.: 2014.09.05  
Start Time: 01:25:00      End Time: 07:38:46      Time On Btm: 2014.09.05 @ 03:45:16  
Time Off Btm: 2014.09.05 @ 06:17:16

TEST COMMENT: IFP 30 Weak surface blow through out.  
ISI 45 No blow back  
FFP 30 Dead flushed tool no help.  
FSI 45 No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2148.35	117.34	Initial Hydro-static
1	1388.53	117.08	Open To Flow (1)
31	1399.44	118.25	Shut-In(1)
76	1399.72	119.39	Open To Flow (2)
105	1400.34	119.98	Shut-In(2)
152	1399.78	120.75	End Shut-In(1)
152	2165.70	120.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud 100%	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Gra Ex, LLC  
2435 North Marquette  
Kingman Kansas 67068  
ATTN: Jeff Burk-Eli Felts

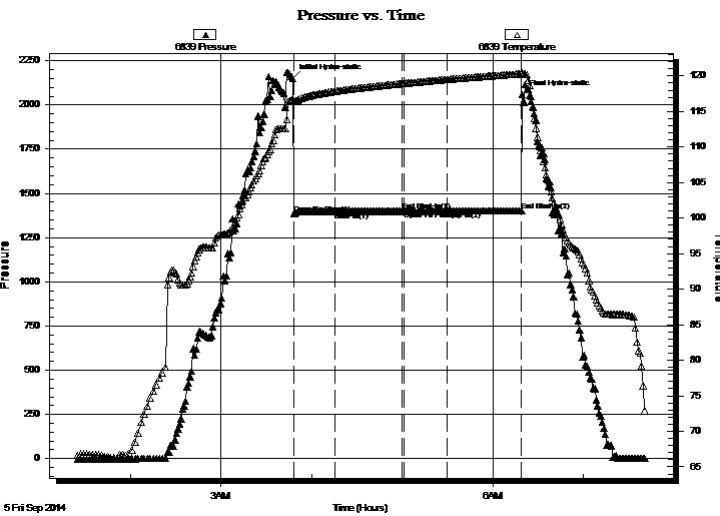
**15-24s-14w-Stafford**  
**Morris #1**  
Job Ticket: 60313      **DST#: 2**  
Test Start: 2014.09.05 @ 01:25:00

## GENERAL INFORMATION:

Formation: **Simpson**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 03:46:16  
Time Test Ended: 07:38:46  
**Interval: 4178.00 ft (KB) To 4197.00 ft (KB) (TVD)**  
Total Depth: 4197.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Dustin Ellis  
Unit No: S2  
Reference Elevations: 1962.00 ft (KB)  
1957.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6839      Inside**  
Press@RunDepth: 1400.64 psig @ 4178.00 ft (KB)      Capacity: 5000.00 psig  
Start Date: 2014.09.05      End Date: 2014.09.05      Last Calib.: 2014.09.05  
Start Time: 01:25:00      End Time: 07:41:00      Time On Btm: 2014.09.05 @ 03:47:30  
Time Off Btm: 2014.09.05 @ 06:19:30

TEST COMMENT: IFP 30 Weak surface blow through out.  
ISI 45 No blow back  
FFP 30 Dead flushed tool no help.  
FSI 45 No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2150.03	116.65	Initial Hydro-static
1	1386.77	116.46	Open To Flow (1)
28	1398.69	117.83	Shut-In(1)
73	1399.12	118.92	End Shut-In(1)
74	1399.13	118.94	Open To Flow (2)
103	1399.57	119.50	Shut-In(2)
152	1400.64	120.29	End Shut-In(2)
152	2057.95	120.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud 100%	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Gra Ex, LLC  
2435 North Marquette  
Kingman Kansas 67068  
ATTN: Jeff Burk-Eli Felts

**15-24s-14w-Stafford**  
**Morris #1**  
Job Ticket: 60313      **DST#: 2**  
Test Start: 2014.09.05 @ 01:25:00

**Tool Information**

Drill Pipe:	Length: 4033.00 ft	Diameter: 3.80 inches	Volume: 56.57 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 123.11 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	67000.00 lb
			<u>Total Volume: 57.18 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.11 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4178.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	5.00 ft				
Tool Length:	33.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut In Tool	5.00			4155.00	
Hydraulic tool	5.00			4160.00	
Jars	6.00			4166.00	
Safety Joint	2.00			4168.00	
Top Packer	5.00			4173.00	
Packer	5.00			4178.00	28.00      Bottom Of Top Packer
Perforations	0.00			4178.00	
Recorder	0.00	6839	Inside	4178.00	
Recorder	0.00	6999	Outside	4178.00	
Bull Plug	5.00			4183.00	5.00      Anchor Tool
<b>Total Tool Length:</b>	<b>33.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Gra Ex, LLC

**15-24s-14w-Stafford**

2435 North Marquette  
Kingman Kansas 67068

**Morris #1**

Job Ticket: 60313

**DST#: 2**

ATTN: Jeff Burk-Eli Felts

Test Start: 2014.09.05 @ 01:25:00

## 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: 68.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Mud 100%	0.020

Total Length: 4.00 ft      Total Volume: 0.020 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

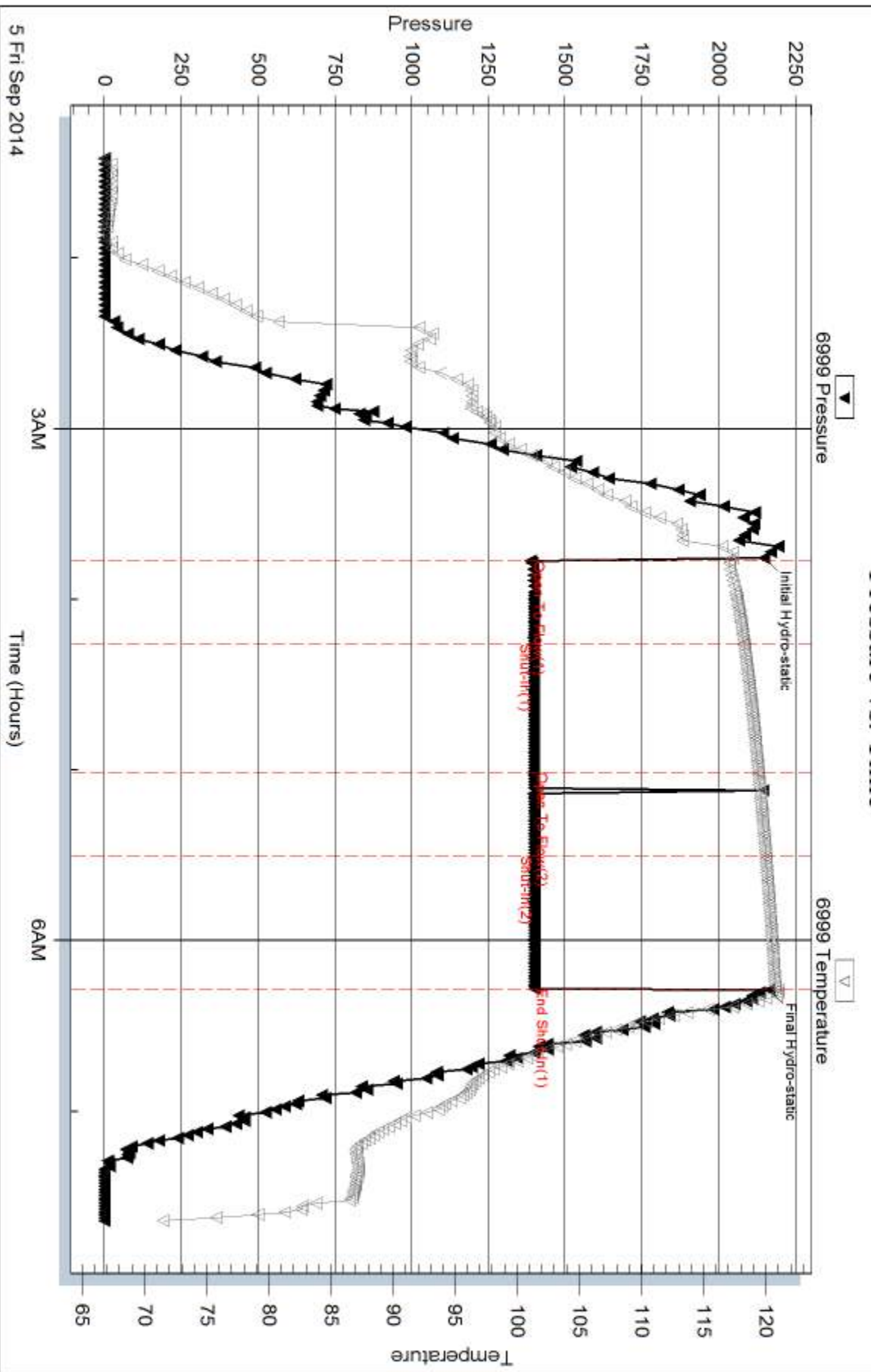
Serial #:

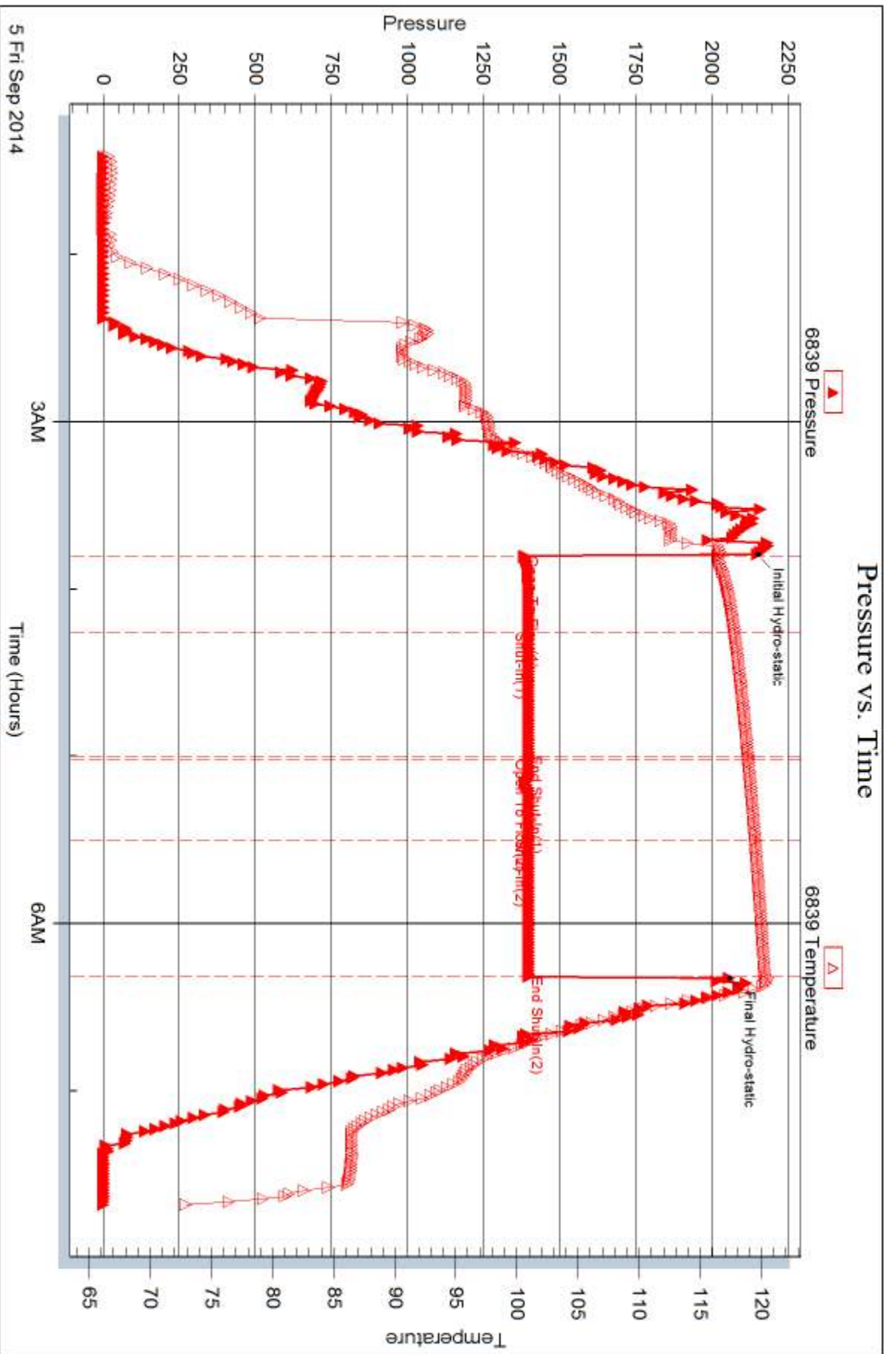
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time









## DRILL STEM TEST REPORT

Prepared For: **Gra Ex, LLC**

2435 North Marquette  
Kingman Kansas 67068

ATTN: Jeff Burk-Eli Felts

**Morris #1**

**15-24s-14w-Stafford**

Start Date: 2014.09.05 @ 09:07:00

End Date: 2014.09.05 @ 15:08:30

Job Ticket #: 60314                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.09.08 @ 13:20:15

Gra Ex, LLC  
15-24s-14w-Stafford  
Morris #1  
DST # 3  
Simpson  
2014.09.05



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Gra Ex, LLC  
2435 North Marquette  
Kingman Kansas 67068  
ATTN: Jeff Burk-Eli Felts

**15-24s-14w-Stafford**

**Morris #1**

Job Ticket: 60314

**DST#: 3**

Test Start: 2014.09.05 @ 09:07:00

## GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:05:00

Time Test Ended: 15:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: S2

Interval: **4178.00 ft (KB) To 4197.00 ft (KB) (TVD)**

Total Depth: 4197.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1962.00 ft (KB)

1957.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6999 Outside**

Press@RunDepth: 1762.83 psig @ 4192.00 ft (KB)

Start Date: 2014.09.05

End Date:

2014.09.05

Start Time: 09:08:00

End Time:

15:08:30

Capacity: 5000.00 psig

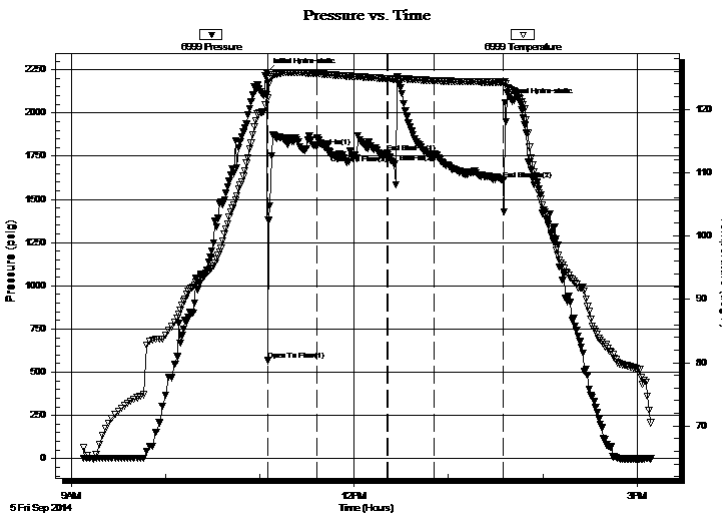
Last Calib.: 2014.09.06

Time On Btm: 2014.09.05 @ 11:04:30

Time Off Btm: 2014.09.05 @ 13:36:00

**TEST COMMENT:** IFP 30 Weak blow built to 1.5 inches.  
ISI 45 No blow back  
FFP 30 Dead Flushed tool no heilp  
FSI 45 No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.72	122.33	Initial Hydro-static
1	567.33	121.75	Open To Flow (1)
32	1804.62	125.64	Shut-In(1)
77	1767.92	124.86	End Shut-In(1)
77	1760.30	124.84	Open To Flow (2)
107	1762.83	124.54	Shut-In(2)
151	1615.60	124.27	End Shut-In(2)
152	2060.84	124.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud 100%	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Gra Ex, LLC  
2435 North Marquette  
Kingman Kansas 67068  
ATTN: Jeff Burk-Eli Felts

**15-24s-14w-Stafford**  
**Morris #1**  
Job Ticket: 60314      **DST#: 3**  
Test Start: 2014.09.05 @ 09:07:00

**Tool Information**

Drill Pipe:	Length: 4033.00 ft	Diameter: 3.80 inches	Volume: 56.57 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 123.11 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 67000.00 lb
		Total Volume: 57.18 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	6.11 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4178.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	47.00 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			4155.00	
Hydraulic tool	5.00			4160.00	
Jars	6.00			4166.00	
Safety Joint	2.00			4168.00	
Top Packer	5.00			4173.00	
Packer	5.00			4178.00	28.00      Bottom Of Top Packer
Perforations	14.00			4192.00	
Recorder	0.00	6839	Inside	4192.00	
Recorder	0.00	6999	Outside	4192.00	
Bull Plug	5.00			4197.00	19.00      Anchor Tool
<b>Total Tool Length:</b>	<b>47.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Gra Ex, LLC  
2435 North Marquette  
Kingman Kansas 67068  
ATTN: Jeff Burk-Eli Felts

**15-24s-14w-Stafford**  
**Morris #1**  
Job Ticket: 60314      **DST#: 3**  
Test Start: 2014.09.05 @ 09:07:00

### Mud and Cushion Information

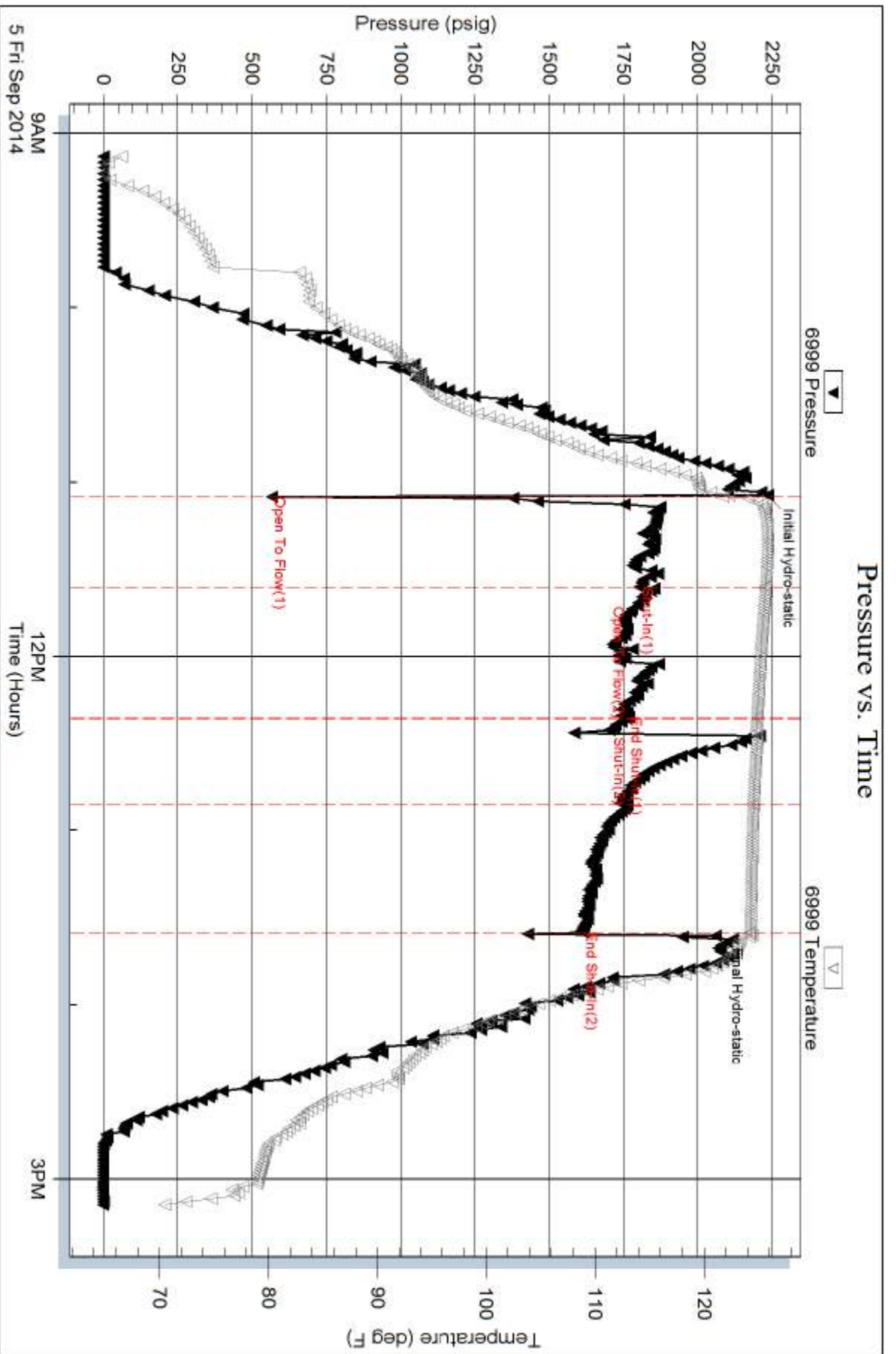
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 68.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 9200.00 ppm			
Filter Cake: 1.00 inches			

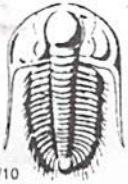
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Mud 100%	0.020

Total Length: 4.00 ft      Total Volume: 0.020 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **60312**

Well Name & No. Morris #1 Test No. 1 Date 9-3-14  
 Company Gra EX, LLC Elevation 1457 KB 1862 GL  
 Address 2435 N. Marquette Kingman Kansas 67068  
 Co. Rep / Geo. Jeff Burk Rig Petromark Drilling Rig #2  
 Location: Sec. 15 Twp. 24s Rge. 14W Co. Stafford State Ks

Interval Tested 3777-3866 Zone Tested Lansing H,I,J,K  
 Anchor Length 89 Drill Pipe Run 3052 Mud Wt. 9.35  
 Top Packer Depth 3772 Drill Collars Run ~~60.95~~ 123.11 Vis 54  
 Bottom Packer Depth 3777 Wt. Pipe Run 20000 WL 9.41  
 Total Depth 3866 Chlorides 10,000 ppm System LCM 1

Blow Description 1st open Wk bar built to 1.5 inches into a 5 gallon bucket  
1st shut in - No blow back  
2nd Open - Dead Flushed tool  
2nd shut in - no blow back

Rec	Feet of	%gas	%oil	%water	%mud
67		very lightly oil spotted mud			100

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1943  Test Bottom Hole 1150 On Location 9:00pm  
 (B) First Initial Flow 63  Jars Yes 250 T-Started 10:15p  
 (C) First Final Flow 77  Safety Joint Yes 75 T-Open 11:55p  
 (D) Initial Shut-In 1020  Circ Sub - T-Pulled 2:25a  
 (E) Second Initial Flow 80  Hourly Standby - T-Out 4:25am  
 (F) Second Final Flow 100  Mileage 72 111.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 949  Sampler -  Ruined Shale Packer -  
 (H) Final Hydrostatic 1935  Straddle none  Ruined Packer -  
 Shale Packer none  Extra Copies -  
 Extra Packer none  Extra Recorder none Sub Total 0  
 Extra Recorder none  Day Standby - Total 1586.60  
 Day Standby -  Accessibility - MP/DST Disc't \_\_\_\_\_  
 Accessibility - Sub Total 1586.60

Approved By N-A Our Representative Dustin Ellis

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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **60313**

Well Name & No. Morris #1 Test No. 2 Date 9-5-14  
 Company Gra 5X LLC Elevation 1957 KB 1962 GL  
 Address 2435 N. Marquette Kingman Kansas 67068  
 Co. Rep / Geo. Jeff Burk Rig Petromark Rig 2  
 Location: Sec. 15 Twp. 24s Rge. 14w Co. Stafford State KS

Interval Tested 4178 - 4197 Zone Tested Simpson  
 Anchor Length 19 Drill Pipe Run 4033 Mud Wt. 9.0  
 Top Packer Depth 4173 Drill Collars Run 123.11 Vis 68  
 Bottom Packer Depth 4178 Wt. Pipe Run 20,000 WL 12.0  
 Total Depth 4197 Chlorides 9200 ppm System LCM 1

Blow Description 1st open - weak surface blow throughout.  
1st shut-in - No blow back.  
2nd open - Dead Flushed tool no help.  
2nd shut-in - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>4</u>	<u>Mud</u>			<u>100</u>	
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 \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic \_\_\_\_\_  Test Bottom Hole 1050 T-On Location 1:15pm  
 (B) First Initial Flow \_\_\_\_\_  Jars Yes 250 T-Started 2:15pm  
 (C) First Final Flow \_\_\_\_\_  Safety Joint Yes 75 T-Open 3:45  
 (D) Initial Shut-In \_\_\_\_\_  Circ Sub no T-Pulled 6:15  
 (E) Second Initial Flow \_\_\_\_\_  Hourly Standby no T-Out 8:15  
 (F) Second Final Flow \_\_\_\_\_  Mileage 72 miles R 111.60 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic \_\_\_\_\_  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 3:45 pm 30  
 Initial Shut-In 4:15 pm 45  
 Final Flow 5:00 pm 30  
 Final Shut-In 5:30 pm 45  
 Sub Total \_\_\_\_\_ 300  
 Total 1786.60  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1486.60

Approved By V-A Our Representative Dustin Ellis

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.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60314

Well Name & No. Morris #1 Test No. 3 Date 9-5-14  
 Company Gra 2x h/c Elevation 1957 KB 1962 GL  
 Address 2435 N. Marquette Kingman Kansas 67068  
 Co. Rep / Geo. Jeff Burk Rig Petromark Rig 2  
 Location: Sec. 15 Twp. 24S Rge. 14W Co. Stafford State KS

Interval Tested 4178 - 4197 Zone Tested Simpson  
 Anchor Length 19 Drill Pipe Run 4033 Mud Wt. 9.0  
 Top Packer Depth 4173 Drill Collars Run 123.4 Vis 68  
 Bottom Packer Depth 4178 Wt. Pipe Run 26,000 WL 12.0  
 Total Depth 4197 Chlorides 9200 ppm System LCM 1

Blow Description 1st open - weak building blow built to 1.5 inches.  
1st shut in - No blow back.  
2nd open - Dec'd flushed no help.  
2nd shut in - No blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>4</u>	<u>Mud</u>			<u>100</u>	

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2234  Test Bottom Hole 1050 T-On Location 8:50pm  
 (B) First Initial Flow 567  Jars Yes 250 T-Started 9:00  
 (C) First Final Flow 1804  Safety Joint Yes 75 T-Open 11:05  
 (D) Initial Shut-In 1767  Circ Sub no T-Pulled 1:35  
 (E) Second Initial Flow 1760  Hourly Standby \_\_\_\_\_ T-Out 1:35 3:35  
 (F) Second Final Flow 1762  Mileage 72 miles R 111.60 Comments got new tools  
 (G) Final Shut-In 1615  Sampler \_\_\_\_\_ ran in.  
 (H) Final Hydrostatic 2060  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Total 1486.60  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

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

Sub Total 1486.60

Approved By N.A Our Representative Dustin Ellis

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PAGE 1 of 1	CUST NO 1001703	YARD # 1718	INVOICE DATE 09/02/2014
<b>INVOICE NUMBER</b> <b>91584035</b>			

Pratt (620) 672-1201  
 B GRA-EX LLC  
 I PO Box: 32  
 L KINGMAN  
 L KS US 67068  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Morris 1  
 O LOCATION  
 B COUNTY Stafford  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40760693	20920		Net - 30 days	10/02/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 08/30/2014 to 08/30/2014</i>				
0040760693				
171811190A Cement-New Well Casing/Pi 08/30/2014				
Cement 8 5/8 Surface				
60/40 POZ	200.00	EA	9.24	1,848.00 T
Celloflake	50.00	EA	2.85	142.45 T
Calcium Chloride	516.00	EA	0.81	417.19 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	123.20	123.20
"Unit Mileage Chg (PU, cars one way)"	30.00	MI	3.27	98.17
Heavy Equipment Mileage	60.00	MI	5.39	323.40
"Proppant & Bulk Del. Chgs., per ton mil	258.00	EA	1.69	437.05
Depth Charge; 0-500'	1.00	EA	770.00	770.00
Blending & Mixing Service Charge	200.00	BAG	1.08	215.60
Plug Container Util. Chg.	1.00	EA	192.50	192.50
"Service Supervisor, first 8 hrs on loc.	1.00	EA	134.75	134.75

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	<b>4,702.31</b>
<b>BASIC ENERGY SERVICES, LP</b>	<b>BASIC ENERGY SERVICES, LP</b>	<b>TAX</b>	<b>172.15</b>
<b>PO BOX 841903</b>	<b>801 CHERRY ST, STE 2100</b>	<b>INVOICE TOTAL</b>	<b>4,874.46</b>
<b>DALLAS, TX 75284-1903</b>	<b>FORT WORTH, TX 76102</b>		



PAGE 1 of 1	CUST NO 1001703	YARD # 1718	INVOICE DATE 09/02/2014
<b>INVOICE NUMBER</b> <b>91584035</b>			

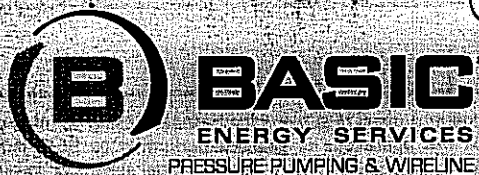
Pratt (620) 672-1201  
 B GRA-EX LLC  
 I PO Box: 32  
 L KINGMAN  
 L KS US 67068  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Morris 1  
 O LOCATION  
 B COUNTY Stafford  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40760693	20920		Net - 30 days	10/02/2014

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 08/30/2014 to 08/30/2014</i>				
0040760693				
171811190A Cement-New Well Casing/Pi 08/30/2014				
Cement 8 5/8 Surface/D:				
60/40 POZ	200.00	EA	9.24	1,848.00 T
Celloflake	50.00	EA	2.85	142.45 T
Calcium Chloride	516.00	EA	0.81	417.19 T
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"Service Supervisor, first 8 hrs on loc.	1.00	EA	134.75	134.75

<b>PLEASE REMIT TO:</b>	<b>SEND OTHER CORRESPONDENCE TO:</b>	<b>SUB TOTAL</b>	<b>4,702.31</b>
<b>BASIC ENERGY SERVICES, LP</b>	<b>BASIC ENERGY SERVICES, LP</b>	<b>TAX</b>	<b>172.15</b>
<b>PO BOX 841903</b>	<b>801 CHERRY ST, STE 2100</b>	<b>INVOICE TOTAL</b>	<b>4,874.46</b>
<b>DALLAS, TX 75284-1903</b>	<b>FORT WORTH, TX 76102</b>		



10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET

1718 11190 A

DATE 8-30-14 TICKET NO.

15-24-15

DATE OF JOB: 8-30-14 DISTRICT: Pratt	NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:
CUSTOMER: GRA EX LLC	LEASE: MORRIS WELL NO. 1
ADDRESS:	COUNTY: STAFFORD STATE: KS
CITY: STATE:	SERVICE CREW: MATTAI, EGGINS, PLYO, ROBSON
AUTHORIZED BY:	JOB TYPE: PAW - SURFACE
EQUIPMENT# HRS EQUIPMENT# HRS EQUIPMENT# HRS	TRUCK CALLED: 8-30-14 DATE AM/PM TIME
37586 .5	ARRIVED AT JOB AM/PM 2:45
19826/20920 .5	START OPERATION AM/PM 3:20
70959/19918 .5	FINISH OPERATION AM/PM 3:45
	RELEASED AM/PM 4:00
	MILES FROM STATION TO WELL: 30

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered)

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *X. Deans*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 POZ	SK	200		2400 00
CC 102	Cellulose	lb	50		185 00
CC 109	Calcium Chloride	lb	516		541 80
CF 153	Wooden Pile 8 3/8	EA	1		160 00
E 100	P.W. mile	MI	30		127 50
E 101	Heavy eq. mile	MI	600		420 00
E 113	PROP + OIL + D-1	TM	258		567 00
10200	DEPTH CHARGE 0-500'	410	1		6000 00
10240	Blend + MIX CHARGE	SK	200		280 00
10504	PILE INSTALL	JOB	1		250 00
S003	SUPPLY ROAD	EA	1		175 00

SUB TOTAL 4,702 31

CHEMICAL / AGID DATA			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: M. W. MATTAI

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *X. Deans*  
(WELL OWNER/OPERATOR/CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



Customer <b>GARA EX LLC</b>	Lease No.	Date <b>8-30-14</b>
Lease <b>Morris</b>	Well # <b>1</b>	
Field Order # <b>1190</b>	Station <b>PRATT</b>	Casing <b>8 5/8</b> Depth <b>248.50</b>
Type Job <b>CNW SURFACE</b>	Formation	County <b>STARBUCK</b> State <b>KS</b>
		Legal Description <b>14-24-15</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>8 5/8</b>	Tubing Size	Shots/Ft		Acid <b>200 SKS</b>	RATE <b>60/40</b>	PRESS <b>100</b>	JSIP <b>20</b>	
Depth <b>248.50</b>	Depth	From	To	Pre Pad	Max	<b>39 CC</b>	<b>5 Min / 14 CC</b>	
Volume <b>15.8</b>	Volume	From	To	Pad	Min		<b>10 Min.</b>	
Max Press <b>300</b>	Max Press	From	To	Frac	Avg		<b>15 Min.</b>	
Well Connection	Annulus Vol.	From	To		HHP Used		<b>Annulus Pressure</b>	
Plug Depth <b>228.50</b>	Packer Depth	From	To	Flush	Gas Volume		<b>Total Load</b>	

Customer Representative **Jeff Burke** Station Manager **Kevin Guidry** Treater **Mike MATTAI**

Service Units	<b>37586</b>	<b>19826</b>	<b>20920</b>	<b>77959</b>	<b>19918</b>			
Driver Names	<b>MATTAI</b>	<b>EGGING</b>		<b>Phyc</b>	<b>ROBERT</b>			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:45					ON LOCATION / SAFETY MEETING
3:10					HOOK TO CASING / BREAK LINE W RIG
3:21	50		43	5	MIX 200 SKS 60/40 P02
3:35					RELEASE PLUG
3:40	100			5	START DISPLACEMENT
3:45	100		14.5		PLUG DOWN
					5 BBL CNT TO SURFACE
					JOB COMPLETE
					THANK YOU!
					MIKE MATTAI
					PAUL
					DAVE
					ROBERT