



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1225215
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: _____

1225215

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 <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

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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ALLIED OIL & GAS SERVICES, LLC 063720

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: great Bend

9-17-17	SEC. 1	TWP. 23	RANGE 19	CALLED OUT 9:00 pm	ON LOCATION 12:00 am	JOB START 8:00 am	JOB FINISH 9:00 am
HXP LEASE	WELL # 1		LOCATION <u>gasfield Fld v to 183</u>		COUNTY <u>Edwards</u>	STATE <u>Ks</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			Keep going w				

CONTRACTOR H-2 #4
 TYPE OF JOB PTA
 HOLE SIZE 7 7/8 T.D. 4660
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 1350
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT H2o

OWNER same
 CEMENT AMOUNT ORDERED 260 cu 60190 41-gal 4/Plc
 COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASC _____ @ _____
60190 41-gal @ 18.92 4919.20
Plc seal @ 2.97 193.05
Materials Total 5112.25
Disc 17.039% 871.08
 @ _____
Service
3.5 hrs wait time @ 440 1540
 @ _____
 HANDLING 279.23 x 2.48 @ _____ 692.49
 MILEAGE 11.65 x 35 2.75 1121.31
 TOTAL 8466.05

EQUIPMENT
 PUMP TRUCK # 597 CEMENTER Charles Kinger HELPER Ben Newell
 BULK TRUCK # 603 DRIVER Kevin Wroughouse
 BULK TRUCK # _____ DRIVER _____

REMARKS:
1st plug @ 1350' 10BB1 H2o mix 50% displac 3.5BB1 H2o @ 8.05 12.76 mud
2nd plug @ 900' 10BB1 H2o mix 50% displac 3.5BB1 H2o @ 6.05 mud 3rd plug 360'
7BB1 H2o mix 40% displac 2.45 BB1 H2o 4th plug 60' mix 20% plug Pat hole
30% mix mouse hole 20%

SERVICE
 DEPTH OF JOB 1350
 PUMP TRUCK CHARGE \$1512.25
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 35 @ 7.70 269.50
 MANIFOLD _____ @ _____
LVM 35 @ 4.40 154
 @ _____

CHARGE TO: Special energy
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 5289.55
 17.039% 901.28

PLUG & FLOAT EQUIPMENT

 @ _____
 @ _____
 @ _____
 @ _____
 @ _____

0% TOTAL 0

thank you!
 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) _____
 TOTAL CHARGES ~~888240~~ 10401.80
 DISCOUNT 1772.36 (17.039/17.039/e) IF PAID IN 30 DAYS
\$ 8629.44

PRINTED NAME X Juan Cordilla
 SIGNATURE Juan Cordilla



DRILL STEM TEST REPORT

Prepared For: **Special Energy**

PO Drawer 369
Stillwater OK 74076

ATTN: George Utley

HXP1 #1

1-23s-19w Edwards,KS

Start Date: 2014.09.13 @ 01:38:00

End Date: 2014.09.13 @ 08:10:00

Job Ticket #: 60317 DST #: 1

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

Printed: 2014.09.16 @ 12:03:29



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Special Energy

1-23s-19w Edwards,KS

PO Drawer 369
Stillwater OK 74076

HXP1 #1

Job Ticket: 60317

DST#: 1

ATTN: George Utley

Test Start: 2014.09.13 @ 01:38:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:27:30

Time Test Ended: 08:10:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: S2

Interval: 4170.00 ft (KB) To 4202.00 ft (KB) (TVD)

Reference Elevations: 2208.00 ft (KB)

Total Depth: 4202.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6839

Inside

Press@RunDepth: 36.10 psig @ 4197.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.09.13

End Date:

2014.09.13

Last Calib.:

2014.09.13

Start Time: 01:39:00

End Time:

08:10:00

Time On Btm:

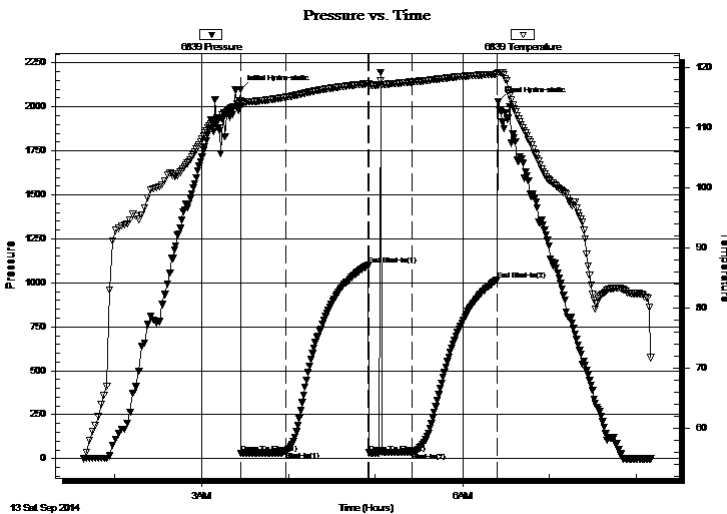
2014.09.13 @ 03:27:00

Time Off Btm:

2014.09.13 @ 06:24:30

TEST COMMENT: IFP 30 Weak surface blow died off after 16 minutes.
ISI 60 No blow back.
FFP 30 Dead flushed tool after 5 minutes ,No help.
FSI60 No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2099.73	114.40	Initial Hydro-static
1	31.20	114.06	Open To Flow (1)
32	44.33	115.04	Shut-In(1)
88	1099.27	117.28	End Shut-In(1)
89	33.34	117.00	Open To Flow (2)
118	36.10	117.55	Shut-In(2)
177	1015.47	118.86	End Shut-In(2)
178	2028.03	119.13	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

Special Energy

1-23s-19w Edwards,KS

PO Drawer 369
Stillwater OK 74076

HXP1 #1

Job Ticket: 60317

DST#: 1

ATTN: George Utley

Test Start: 2014.09.13 @ 01:38:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:27:30

Time Test Ended: 08:10:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: S2

Interval: 4170.00 ft (KB) To 4202.00 ft (KB) (TVD)

Reference Elevations: 2208.00 ft (KB)

Total Depth: 4202.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6999 Outside

Press@RunDepth: 1016.71 psig @ 4197.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.09.13

End Date: 2014.09.13

Last Calib.: 2014.09.13

Start Time: 01:39:00

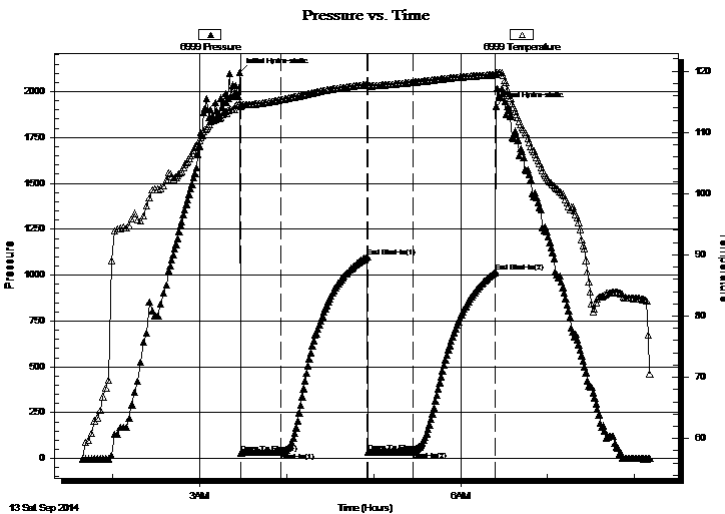
End Time: 08:10:30

Time On Btm: 2014.09.13 @ 03:27:30

Time Off Btm: 2014.09.13 @ 06:24:30

TEST COMMENT: IFP 30 Weak surface blow died off after 16 minutes.
ISI 60 No blow back.
FFP 30 Dead flushed tool after 5 minutes ,No help.
FSI60 No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2105.02	114.72	Initial Hydro-static
1	31.41	114.30	Open To Flow (1)
28	33.12	115.30	Shut-In(1)
88	1099.51	117.79	End Shut-In(1)
89	33.71	117.59	Open To Flow (2)
120	41.31	118.18	Shut-In(2)
177	1016.71	119.41	End Shut-In(2)
177	1920.84	119.69	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

Special Energy

1-23s-19w Edwards,KS

PO Drawer 369
Stillwater OK 74076

HXP1 #1

Job Ticket: 60317

DST#: 1

ATTN: George Utley

Test Start: 2014.09.13 @ 01:38:00

Tool Information

Drill Pipe:	Length: 3922.00 ft	Diameter: 3.80 inches	Volume: 55.02 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: 244.20 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 56.22 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.20 ft			String Weight: Initial	59000.00 lb
Depth to Top Packer:	4170.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	32.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4147.00	
Hydraulic tool	5.00			4152.00	
Jars	6.00			4158.00	
Safety Joint	2.00			4160.00	
Top Packer	5.00			4165.00	
Packer	5.00			4170.00	28.00 Bottom Of Top Packer
Perforations	27.00			4197.00	
Recorder	0.00	6839	Inside	4197.00	
Recorder	0.00	6999	Outside	4197.00	
Bull Plug	5.00			4202.00	32.00 Anchor Tool
Total Tool Length:	60.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Special Energy

1-23s-19w Edwards,KS

PO Drawer 369
Stillwater OK 74076

HXP1 #1

Job Ticket: 60317

DST#: 1

ATTN: George Utley

Test Start: 2014.09.13 @ 01:38:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 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

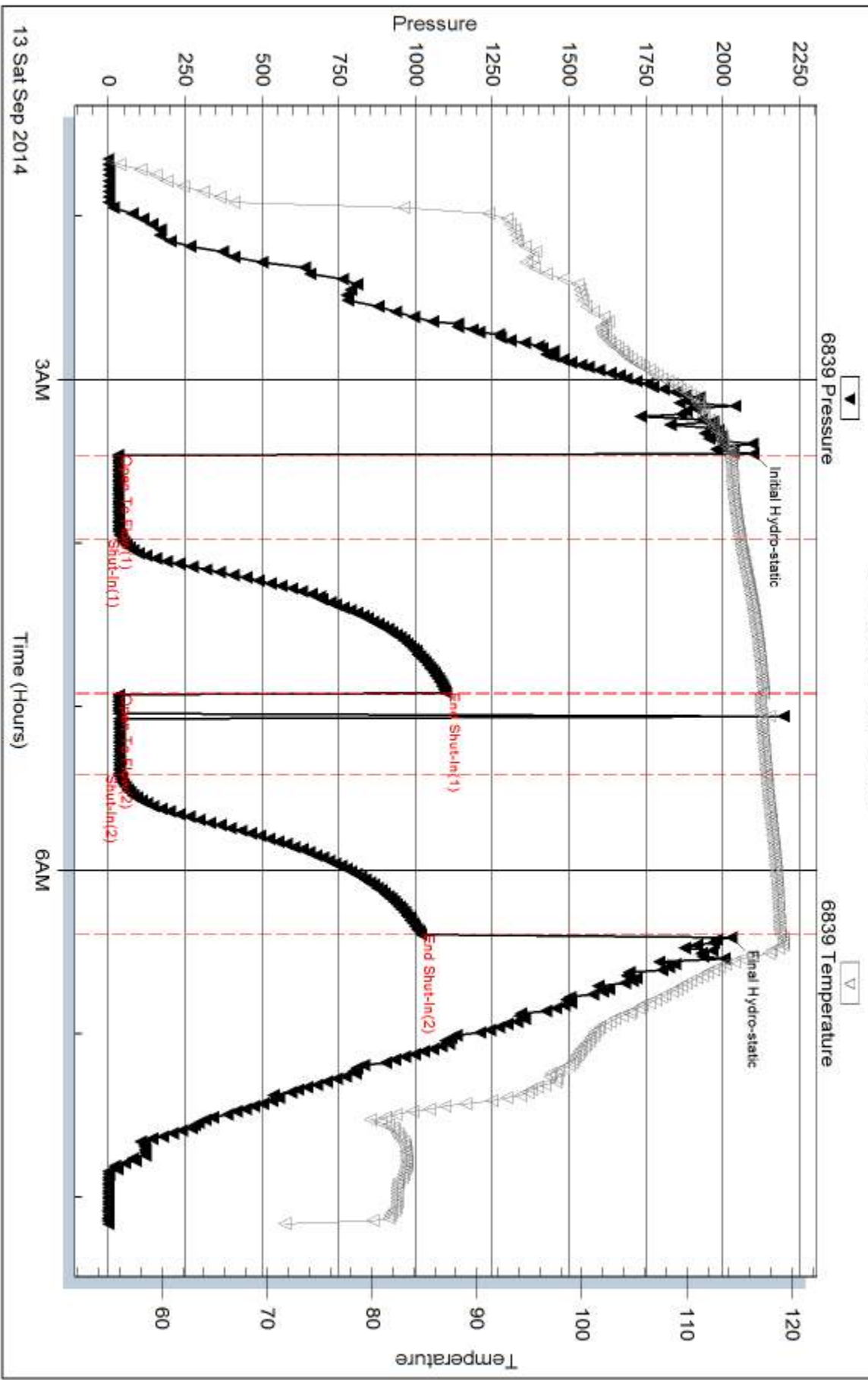
Serial #:

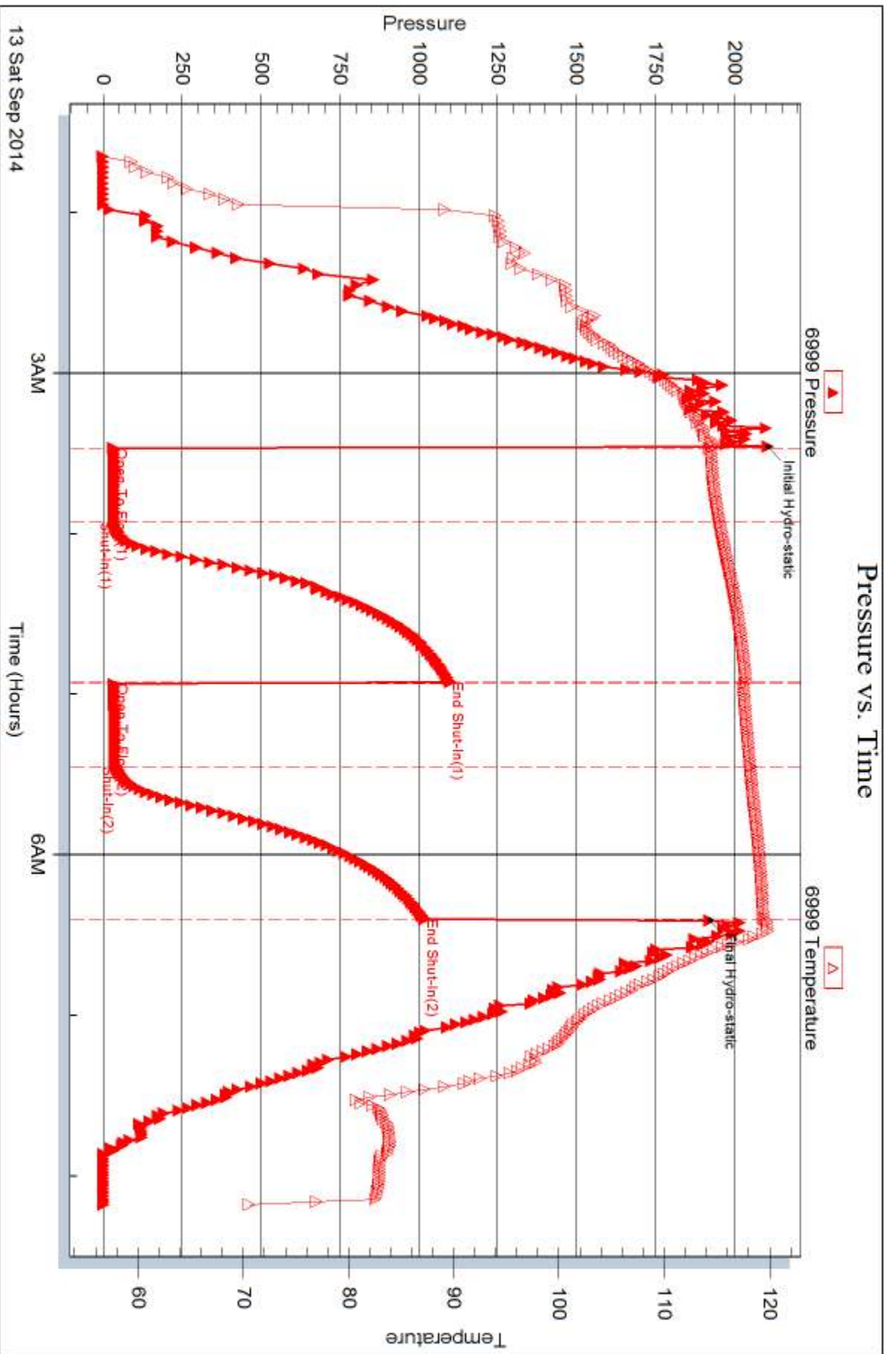
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Special Energy**

PO Drawer 369
Stillwater OK 74076

ATTN: George Utley

HXP1 #1

1-23s-19w Edwards,KS

Start Date: 2014.09.14 @ 03:21:00

End Date: 2014.09.14 @ 11:51:00

Job Ticket #: 60318 DST #: 2

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

Printed: 2014.09.16 @ 12:02:57



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Special Energy

1-23s-19w Edwards,KS

PO Draw er 369
Stillw ater OK 74076

HXP1 #1

Job Ticket: 60318

DST#: 2

ATTN: George Utley

Test Start: 2014.09.14 @ 03:21:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:09:30

Time Test Ended: 11:51:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: S2

Interval: 4428.00 ft (KB) To 4439.00 ft (KB) (TVD)

Reference Elevations: 2208.00 ft (KB)

Total Depth: 4439.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6839 Inside

Press@RunDepth: 658.92 psig @ 4434.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.09.14

End Date:

2014.09.14

Last Calib.: 2014.09.15

Start Time: 03:22:00

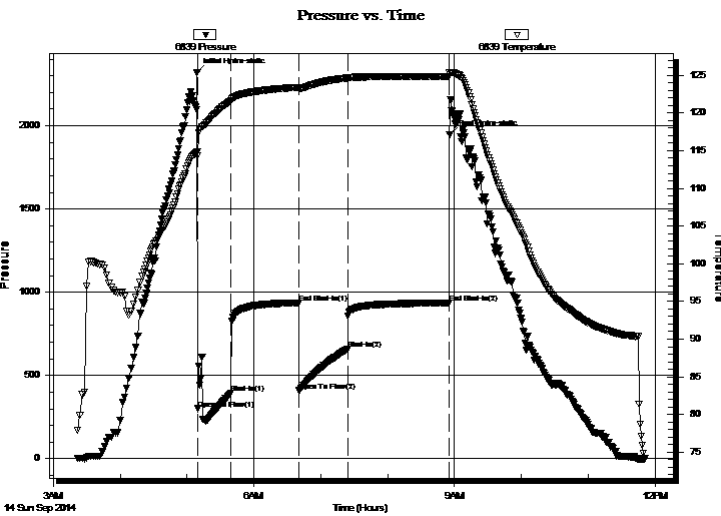
End Time:

11:51:00

Time On Btm: 2014.09.14 @ 05:09:00

Time Off Btm: 2014.09.14 @ 08:55:30

TEST COMMENT: IFP 30 BOB in 2 1/2 min
ISI60 Yes blow back.
FFP 45 BOB in 5 min GTS in 23 min
FSI90 Yes blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2320.31	114.82	Initial Hydro-static
1	299.81	114.36	Open To Flow (1)
31	395.21	121.60	Shut-In(1)
91	936.90	123.42	End Shut-In(1)
92	408.60	123.22	Open To Flow (2)
135	658.92	124.63	Shut-In(2)
226	936.15	124.84	End Shut-In(2)
227	1947.73	125.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	Muddy water 85% water 15% mud	2.19
756.00	Water 100%	10.60
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	-9.50	1.83
Last Gas Rate	0.13	-9.50	1.83



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Special Energy

1-23s-19w Edwards,KS

PO Drawer 369
Stillwater OK 74076

HXP1 #1

Job Ticket: 60318

DST#: 2

ATTN: George Utley

Test Start: 2014.09.14 @ 03:21:00

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:09:30

Time Test Ended: 11:51:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: S2

Interval: 4428.00 ft (KB) To 4439.00 ft (KB) (TVD)

Reference Elevations: 2208.00 ft (KB)

Total Depth: 4439.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6999 Outside

Press@RunDepth: 937.08 psig @ 4434.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.09.14

End Date:

2014.09.14

Last Calib.:

2014.09.15

Start Time:

03:22:00

End Time:

11:51:30

Time On Btm:

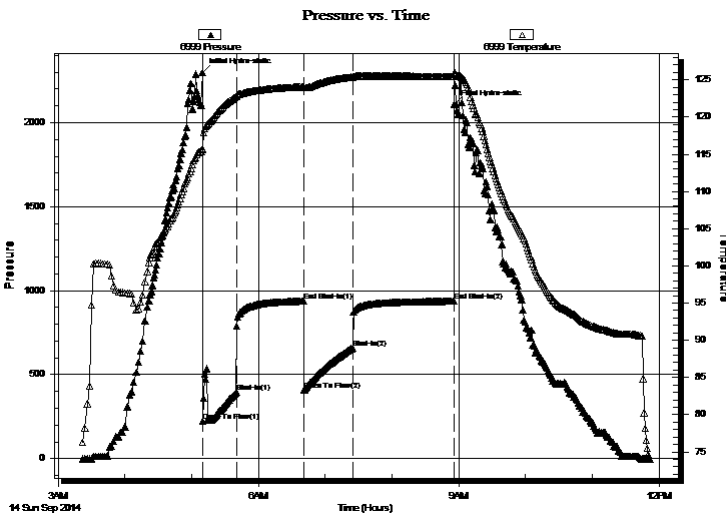
2014.09.14 @ 05:09:30

Time Off Btm:

2014.09.14 @ 08:56:00

TEST COMMENT: IFP 30 BOB in 2 1/2 min
ISI60 Yes blow back.
FFP 45 BOB in 5 min GTS in 23 min
FSI90 Yes blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2299.69	115.59	Initial Hydro-static
1	222.86	115.74	Open To Flow (1)
31	395.18	122.76	Shut-In(1)
91	937.82	124.09	End Shut-In(1)
92	406.63	123.94	Open To Flow (2)
135	659.69	125.38	Shut-In(2)
226	937.08	125.44	End Shut-In(2)
227	2106.78	125.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	Muddy water 85% water 15% mud	2.19
756.00	Water 100%	10.60
0.00	GTS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	-9.50	1.83
Last Gas Rate	0.13	-9.50	1.83



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Special Energy

1-23s-19w Edwards,KS

PO Drawer 369
Stillwater OK 74076

HXP1 #1

Job Ticket: 60318

DST#: 2

ATTN: George Utley

Test Start: 2014.09.14 @ 03:21:00

Tool Information

Drill Pipe:	Length: 4170.00 ft	Diameter: 3.80 inches	Volume: 58.49 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: 244.20 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	72000.00 lb
			<u>Total Volume: 59.69 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.20 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4428.00 ft			Final	66000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	11.00 ft				
Tool Length:	40.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4404.00	
Hydraulic tool	5.00			4409.00	
Jars	6.00			4415.00	
Safety Joint	2.00			4417.00	
Top Packer	5.00			4422.00	
Packer	6.00			4428.00	29.00 Bottom Of Top Packer
Perforations	6.00			4434.00	
Recorder	0.00	6839	Inside	4434.00	
Recorder	0.00	6999	Outside	4434.00	
Bull Plug	5.00			4439.00	11.00 Anchor Tool
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Special Energy

1-23s-19w Edwards,KS

PO Drawer 369
Stillwater OK 74076

HXP1 #1

Job Ticket: 60318

DST#: 2

ATTN: George Utley

Test Start: 2014.09.14 @ 03:21:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 11.16 in³
Resistivity: ohm.m
Salinity: 5800.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 50000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	Muddy water 85%water 15% mud	2.194
756.00	Water 100%	10.605
0.00	GTS	0.000

Total Length: 1071.00 ft Total Volume: 12.799 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .2ohms@56degress



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Special Energy

1-23s-19w Edwards,KS

PO Drawer 369
Stillwater OK 74076

HXP1 #1

Job Ticket: 60318

DST#: 2

ATTN: George Utley

Test Start: 2014.09.14 @ 03:21:00

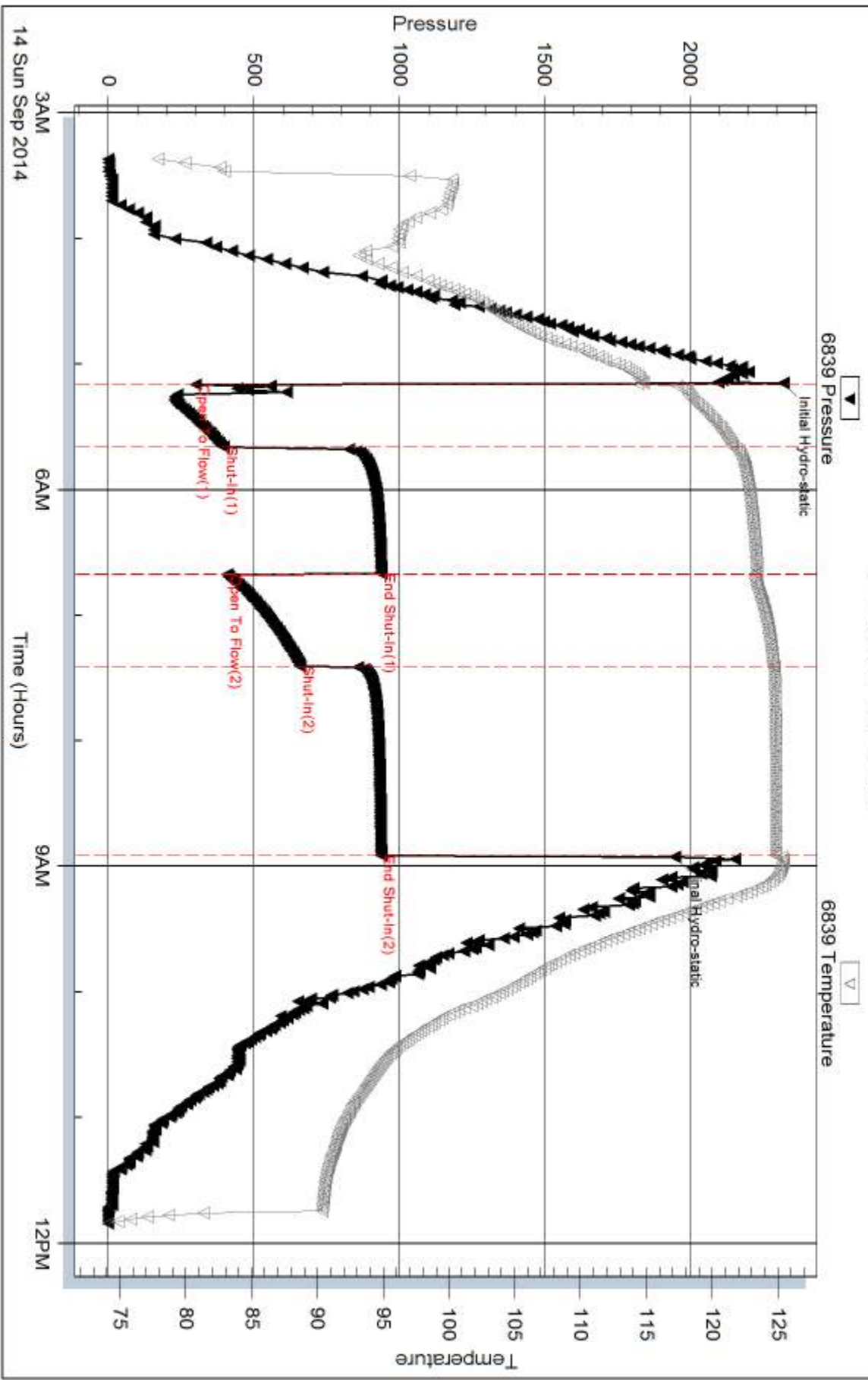
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

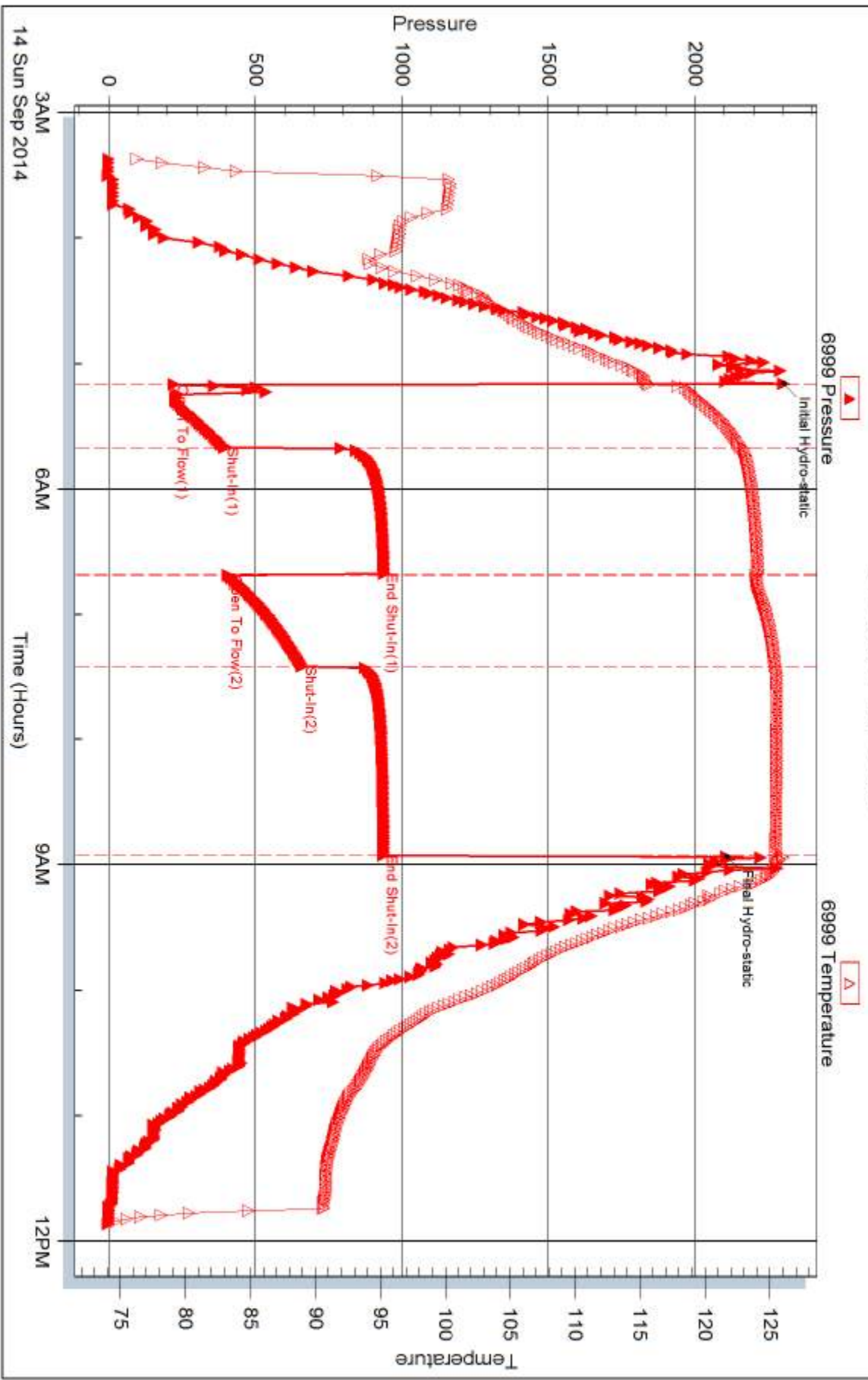
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	30	0.13	-9.50	1.83
2	30	0.13	-9.50	1.83

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Special Energy**

PO Drawer 369
Stillwater OK 74076

ATTN: George Utley

HXP1 #1

1-23s-19w Edwards,KS

Start Date: 2014.09.15 @ 08:58:00

End Date: 2014.09.15 @ 16:05:16

Job Ticket #: 60319 DST #: 3

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

Printed: 2014.09.16 @ 12:02:10

Special Energy
1-23s-19w Edwards,KS
HXP1 #1
DST # 3
Mississippi
2014.09.15



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Special Energy

1-23s-19w Edwards,KS

PO Drawer 369
Stillwater OK 74076

HXP1 #1

Job Ticket: 60319

DST#: 3

ATTN: George Utley

Test Start: 2014.09.15 @ 08:58:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:43:46

Time Test Ended: 16:05:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: S2

Interval: 4454.00 ft (KB) To 4471.00 ft (KB) (TVD)

Reference Elevations: 2208.00 ft (KB)

Total Depth: 4471.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6999 Outside

Press@RunDepth: 188.92 psig @ 4466.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.09.15

End Date:

2014.09.15

Last Calib.: 2014.09.15

Start Time: 08:59:00

End Time:

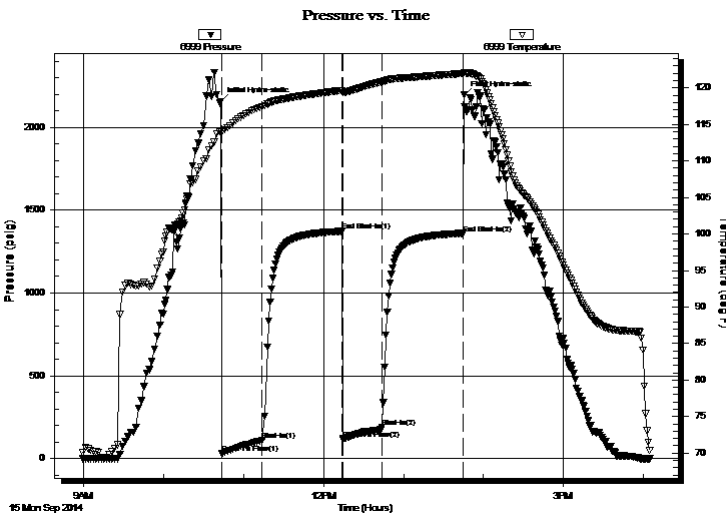
16:05:16

Time On Btm: 2014.09.15 @ 10:42:46

Time Off Btm: 2014.09.15 @ 13:45:16

TEST COMMENT: IFP 30 Fair building blow built to 8"
ISI 60 No blow back
FFP 30 Fair building blow built to 5"
FSI 60 No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.98	114.13	Initial Hydro-static
1	29.86	114.03	Open To Flow (1)
31	110.47	117.40	Shut-In(1)
91	1372.89	119.64	End Shut-In(1)
92	117.96	119.33	Open To Flow (2)
121	188.92	120.81	Shut-In(2)
182	1359.32	121.95	End Shut-In(2)
183	2193.82	122.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
18.00	Oil cut mud Oil 4% Mud 96	0.09
126.00	Oil spotted w ater Water 90% Mud 10%	0.62
189.00	Oil spotted w ater 100% Water	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Special Energy

1-23s-19w Edwards,KS

PO Drawer 369
Stillwater OK 74076

HXP1 #1

Job Ticket: 60319

DST#: 3

ATTN: George Utley

Test Start: 2014.09.15 @ 08:58:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:43:46

Time Test Ended: 16:05:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: S2

Interval: 4454.00 ft (KB) To 4471.00 ft (KB) (TVD)

Reference Elevations: 2208.00 ft (KB)

Total Depth: 4471.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 6839

Inside

Press@RunDepth: 1359.82 psig @ 4466.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.09.15

End Date:

2014.09.15

Last Calib.:

2014.09.15

Start Time: 08:59:00

End Time:

16:06:30

Time On Btm:

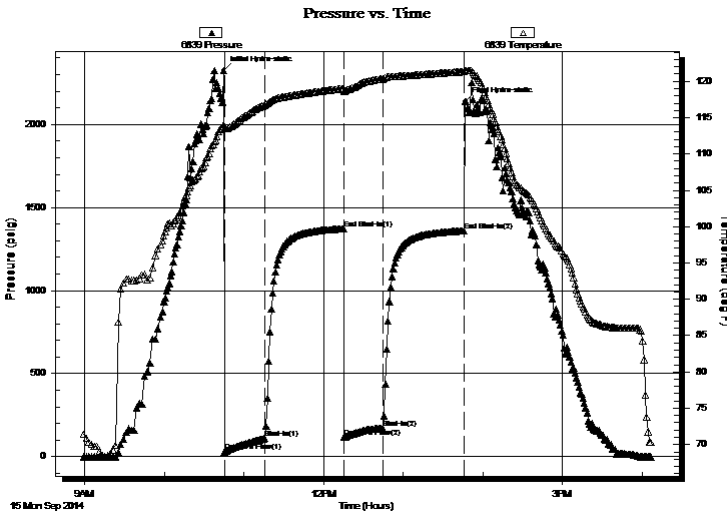
2014.09.15 @ 10:44:30

Time Off Btm:

2014.09.15 @ 13:46:30

TEST COMMENT: IFP 30 Fair building blow built to 8"
ISI 60 No blow back
FFP 30 Fair building blow built to 5"
FSI 60 No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2325.02	114.07	Initial Hydro-static
1	29.37	113.48	Open To Flow (1)
31	110.50	116.73	Shut-In(1)
91	1372.02	119.01	End Shut-In(1)
91	117.10	118.62	Open To Flow (2)
120	173.25	120.33	Shut-In(2)
182	1359.82	121.35	End Shut-In(2)
182	2137.20	121.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
18.00	Oil cut mud Oil 4% Mud 96	0.09
126.00	Oil spotted w ater Water 90% Mud 10%	0.62
189.00	Oil spotted w ater 100% Water	1.74

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Special Energy

1-23s-19w Edwards,KS

PO Drawer 369
Stillwater OK 74076

HXP1 #1

Job Ticket: 60319

DST#: 3

ATTN: George Utley

Test Start: 2014.09.15 @ 08:58:00

Tool Information

Drill Pipe:	Length: 4199.00 ft	Diameter: 3.80 inches	Volume: 58.90 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: 244.20 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 60.10 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.20 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4454.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	45.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4431.00	
Hydraulic tool	5.00			4436.00	
Jars	6.00			4442.00	
Safety Joint	2.00			4444.00	
Top Packer	5.00			4449.00	
Packer	5.00			4454.00	28.00 Bottom Of Top Packer
Perforations	12.00			4466.00	
Recorder	0.00	6839	Inside	4466.00	
Recorder	0.00	6999	Outside	4466.00	
Bull Plug	5.00			4471.00	17.00 Anchor Tool
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Special Energy

1-23s-19w Edwards,KS

PO Draw er 369
Stillw ater OK 74076

HXP1 #1

Job Ticket: 60319

DST#: 3

ATTN: George Utley

Test Start: 2014.09.15 @ 08:58:00

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:

54000 ppm

Viscosity: 578.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 12.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
18.00	Oil cut mud Oil 4% Mud 96	0.089
126.00	Oil spotted w ater Water 90% Mud 10%	0.620
189.00	Oil spotted w ater 100% Water	1.738

Total Length: 333.00 ft

Total Volume: 2.447 bbl

Num Fluid Samples: 0

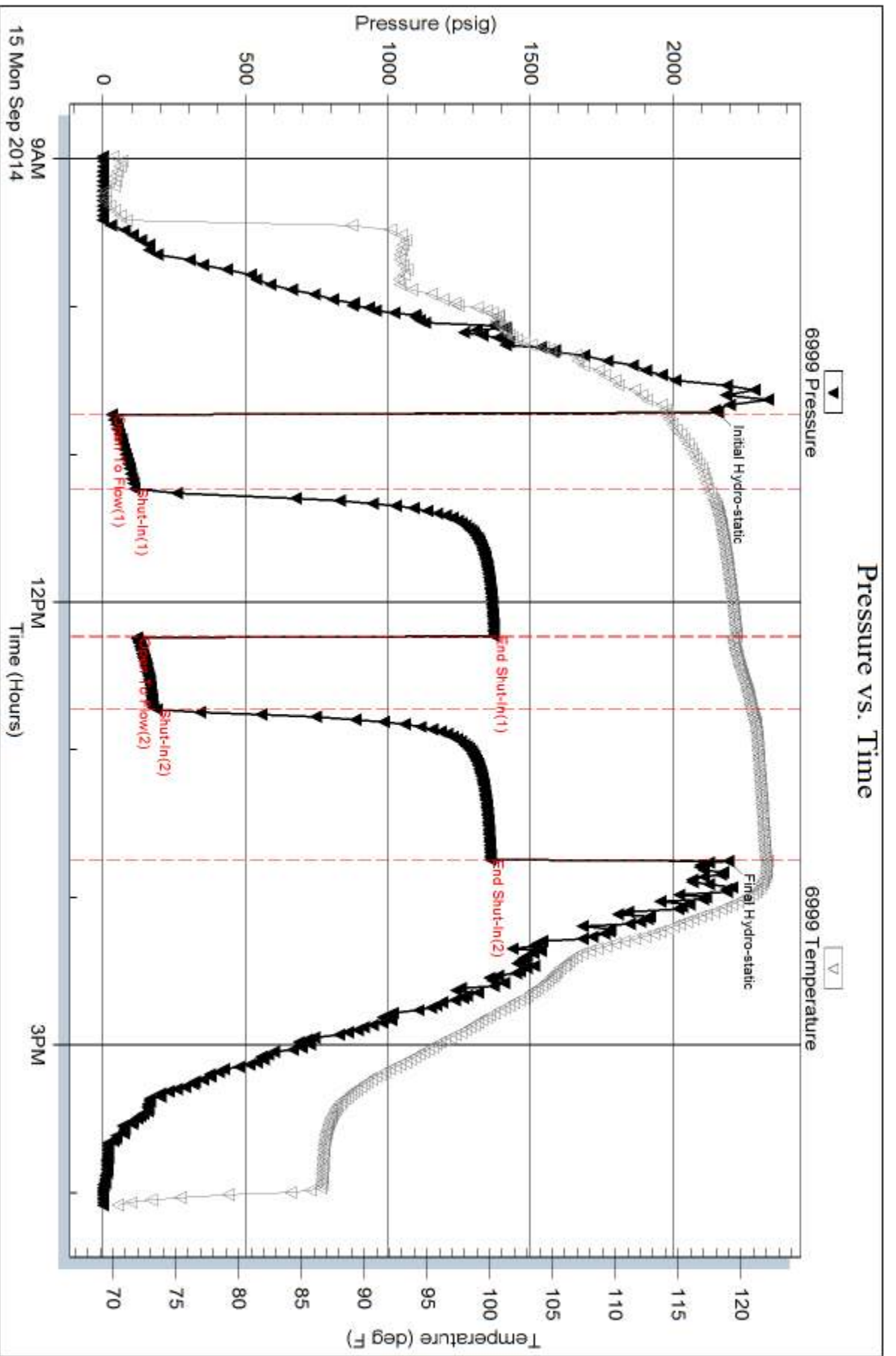
Num Gas Bombs: 0

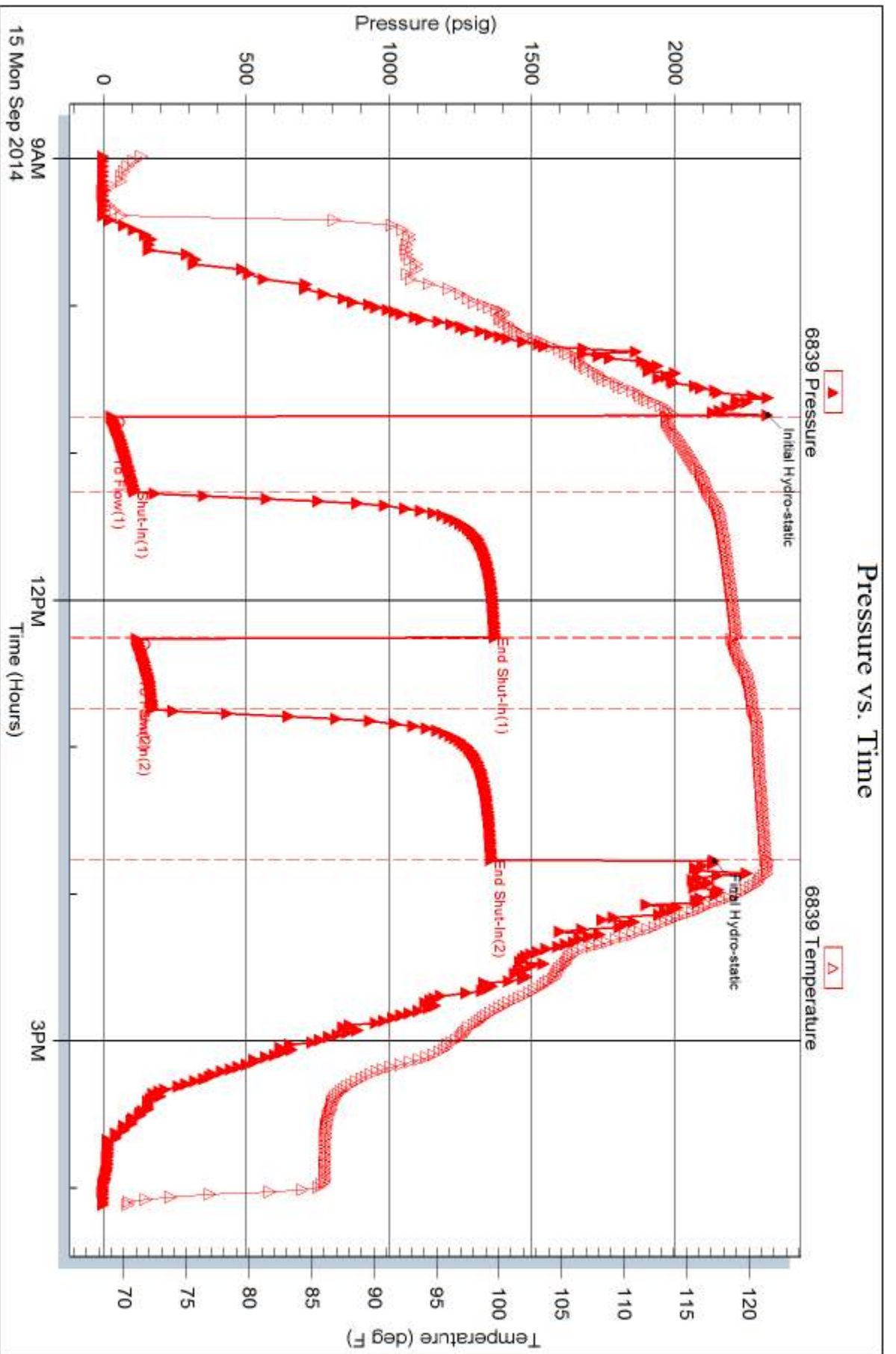
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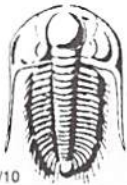
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60317

4/10

Well Name & No. Hxp1 #1 Test No. 1 Date 9-13-14
 Company Special Energy Elevation 2198 KB 2208 GL
 Address PO Drawer 369 Stillwater Oklahoma 74076
 Co. Rep / Geo. George Utley Rig H2 Drilling Rig #1
 Location: Sec. 1 Twp. 23s Rge. 19w Co. Edwards State KS

Interval Tested 4170 - 4202 Zone Tested Lansing K
 Anchor Length 32 Drill Pipe Run 3922 Mud Wt. 9.2
 Top Packer Depth 4165 Drill Collars Run 244.20 Vis 51
 Bottom Packer Depth 4170 Wt. Pipe Run 20000 WL 11.2
 Total Depth 4202 Chlorides 5000 ppm System LCM 1

Blow Description 1st open - weak blow died off after 16 minutes.
1st shut in - No blow back
2nd Open - Dead flushed tool after 5 minutes. No help.
2nd shut in No blow back

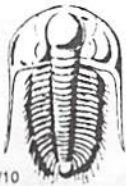
Rec	Feet of	%gas	%oil	%water	%mud
<u>H</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 4001 BHT --- Gravity --- API RW 2 @ 56 °F Chlorides 5000 ppm

(A) Initial Hydrostatic 2099 Test bottom hole 1250 T-On Location 1:00pm
 (B) First Initial Flow 31 Jars Yes 250 T-Started 1:30pm
 (C) First Final Flow 44 Safety Joint Yes 75 T-Open 3:24pm
 (D) Initial Shut-In 1099 Circ Sub none T-Pulled 6:24pm
 (E) Second Initial Flow 33 Hourly Standby none T-Out 8:20pm
 (F) Second Final Flow 36 Mileage 82 round 127.10 Comments no steps end at walk
 (G) Final Shut-In 1015 Sampler none
 (H) Final Hydrostatic 2028 Straddle none Ruined Shale Packer none
 Shale Packer none Ruined Packer none
 Extra Packer none Extra Copies none

Initial Open 30 Extra Recorder none Sub Total 0
 Initial Shut-In 60 Day Standby none Total 1852.10
 Final Flow 30 Accessibility none 150 MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1852.10

Approved By _____ Our Representative Dustin Ellis



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **60318**

Well Name & No. Hxp1 #1 Test No. 2 Date 9-14-14
 Company Special Energy Elevation 2198 KB 2208 GL
 Address PO Drawer 369 Stillwater Oklahoma 741076
 Co. Rep / Geo. George Utley Rig H2 Drilling Rig 4
 Location: Sec. 1 Twp. 23s Rge. 19w Co. Edwards State KS

Interval Tested 4428-4439 Zone Tested Cherokee
 Anchor Length 11 Drill Pipe Run 4170 Mud Wt. 9.2
 Top Packer Depth 4423 Drill Collars Run 244.20 Vis 51
 Bottom Packer Depth 4428 Wt. Pipe Run 20,000 WL 11.2
 Total Depth 4439 Chlorides 5800 ppm System LCM 1

Blow Description 1st open - strong blow blew off bottom bucket 2.5 minutes. 1st shut-in - Yes blow back.
2nd open - strong blow built to bottom bucket in 5 minutes. 2nd shut-in - Yes blow back.

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>muddy water</u>		<u>85</u>	<u>15</u>	
<u>756</u>	<u>Water</u>		<u>100</u>		

Rec Total 1071 BHT - Gravity - API RW .2 @ 56 °F Chlorides 5000 ppm

(A) Initial Hydrostatic 2320 Test Bottom Hole 1250 T-On Location 2:00pm
 (B) First Initial Flow 299 Jars Yes 250 T-Started 3:21pm
 (C) First Final Flow 395 Safety Joint Yes 75 T-Open 5:09p
 (D) Initial Shut-In 936 Circ Sub none T-Pulled 8:54pm
 (E) Second Initial Flow 408 Hourly Standby none T-Out _____
 (F) Second Final Flow 658 Mileage 92 round 127.10 Comments Gas sample taken.
 (G) Final Shut-In 936 Sampler none no steps and calculations.
 (H) Final Hydrostatic 1947 Straddle none Ruined Shale Packer none
 Shale Packer none Ruined Packer none
 Extra Packer none Extra Copies none
 Extra Recorder none Sub Total 0
 Day Standby none Total 1852.10
 Accessibility none 150 MP/DST Disc't _____
 Sub Total 1852.10

Approved By _____ Our Representative Dustin Davis

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. 60319

Well Name & No. Hxp1 #1 Test No. 3 Date 9-15-74
 Company Special Energy Elevation 2198 KB 2206 GL
 Address PO Drawer 369 Stillwater Oklahoma 74076
 Co. Rep / Geo. George Utter Rig H2 Drilling Rig 4
 Location: Sec. 1 Twp. 23s Rge. 19w Co. Edwards State OK

Interval Tested 4458 - 4471 Zone Tested mississippi
 Anchor Length 17 Drill Pipe Run 4199 Mud Wt. 9.4
 Top Packer Depth ~~4450~~ 4449 Drill Collars Run 244.20 Vis 57
 Bottom Packer Depth ~~4450~~ 4454 Wt. Pipe Run 20,000 WL 12.8
 Total Depth 4471 Chlorides 12,800 ppm System LCM 1

Blow Description 1st open - Fair building blow built to 8 inches into 5 gallon bud
1st shut in - No blow back.
2nd open - Fair building blow built to 5 inches into a 5 gallon bud
2nd shut in - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>18</u>	<u>oil cut mud</u>	<u>4</u>		<u>96</u>	
<u>126</u>	<u>oil spotted muddy water</u>		<u>96</u>	<u>10</u>	
<u>189</u>	<u>oil spotted water</u>		<u>100</u>		

Rec Total 333 BHT — Gravity — API RW — @ — °F Chlorides 54,000 ppm

(A) Initial Hydrostatic 2156 Test Bottom hole 1250 T-On Location 8:40am
 (B) First Initial Flow 29 Jars yes 250 T-Started 8:58am
 (C) First Final Flow 110 Safety Joint yes 75 T-Open 10:44am
 (D) Initial Shut-In 1372 Circ Sub — T-Pulled 1:44pm
 (E) Second Initial Flow 117 Hourly Standby — T-Out 4:15pm
 (F) Second Final Flow 166 Mileage 82 round 127.10 Comments no step and cut work
 (G) Final Shut-In 1359 Sampler —
 (H) Final Hydrostatic 2193 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60
 Sub Total 0
 Total 1852.10
 MP/DST Disc't —
 Sub Total 1852.10

Approved By _____ Our Representative _____
 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.