



## DRILL STEM TEST REPORT

Prepared For: **Questa Energy Corp.**

PO Box 509068  
Amarillo TX 79159

ATTN: Justin Carter

**Zerr #2-23**

**23-12s-31w Gove,KS**

Start Date: 2016.11.16 @ 04:51:00

End Date: 2016.11.16 @ 13:47:15

Job Ticket #: 63466                      DST #: 1

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

Printed: 2016.11.21 @ 09:24:53

Questa Energy Corp. 23-12s-31w Gove,KS Zerr #2-23 DST # 1 Ft Scott 2016.11.16



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Questa Energy Corp.  
PO Box 509068  
Amarillo TX 79159  
ATTN: Justin Carter

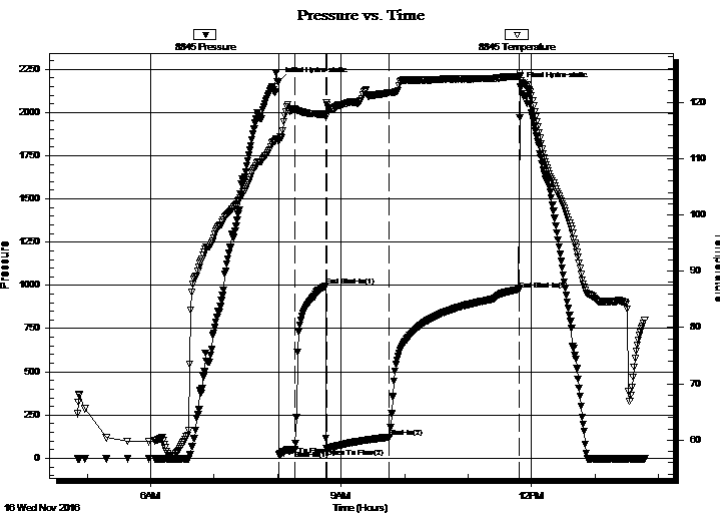
**23-12s-31w Gove,KS**  
**Zerr #2-23**  
Job Ticket: 63466 **DST#: 1**  
Test Start: 2016.11.16 @ 04:51:00

## GENERAL INFORMATION:

Formation: **Ft Scott**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 08:01:15  
Time Test Ended: 13:47:15  
Interval: **4356.00 ft (KB) To 4390.00 ft (KB) (TVD)**  
Total Depth: 4390.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Bradley Walter  
Unit No: 69  
Reference Elevations: 2837.00 ft (KB)  
2829.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8845 Outside**  
Press@RunDepth: 121.61 psig @ 4357.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2016.11.16 End Date: 2016.11.16 Last Calib.: 2016.11.16  
Start Time: 04:51:05 End Time: 13:47:15 Time On Btm: 2016.11.16 @ 08:00:45  
Time Off Btm: 2016.11.16 @ 11:49:15

TEST COMMENT: IF: 5" blow .  
IS: No return.  
FF: 5 1/2" blow .  
FS: surface return, died @ 30 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2177.60	113.39	Initial Hydro-static
1	20.43	112.97	Open To Flow (1)
16	48.89	118.74	Shut-In(1)
45	997.07	117.88	End Shut-In(1)
46	56.49	119.89	Open To Flow (2)
105	121.61	121.68	Shut-In(2)
227	976.14	124.57	End Shut-In(2)
229	2149.99	124.60	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
160.00	somcw 1o 15m 84w	1.22
80.00	gw mco 5g 45o 15w 35m	0.61
0.00	260' GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Questa Energy Corp.

**23-12s-31w Gove,KS**

PO Box 509068  
Amarillo TX 79159

**Zerr #2-23**

Job Ticket: 63466

**DST#: 1**

ATTN: Justin Carter

Test Start: 2016.11.16 @ 04:51:00

## Tool Information

Drill Pipe:	Length: 4092.00 ft	Diameter: 3.80 inches	Volume: 57.40 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 248.00 ft	Diameter: 2.80 inches	Volume: 1.89 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 83000.00 lb
			<u>Total Volume: 59.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4356.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4330.00	
Shut In Tool	5.00			4335.00	
Hydraulic tool	5.00			4340.00	
Jars	5.00			4345.00	
Safety Joint	2.00			4347.00	
Packer	5.00			4352.00	27.00 Bottom Of Top Packer
Packer	4.00			4356.00	
Stubb	1.00			4357.00	
Recorder	0.00	8365	Inside	4357.00	
Recorder	0.00	8845	Outside	4357.00	
Perforations	30.00			4387.00	
Bullnose	3.00			4390.00	34.00 Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Questa Energy Corp.

**23-12s-31w Gove,KS**

PO Box 509068  
Amarillo TX 79159

**Zerr #2-23**

Job Ticket: 63466

**DST#: 1**

ATTN: Justin Carter

Test Start: 2016.11.16 @ 04:51:00

## 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:

42000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	somcw 1o 15m 84w	1.219
80.00	gw mco 5g 45o 15w 35m	0.609
0.00	260' GIP	0.000

Total Length: 240.00 ft      Total Volume: 1.828 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

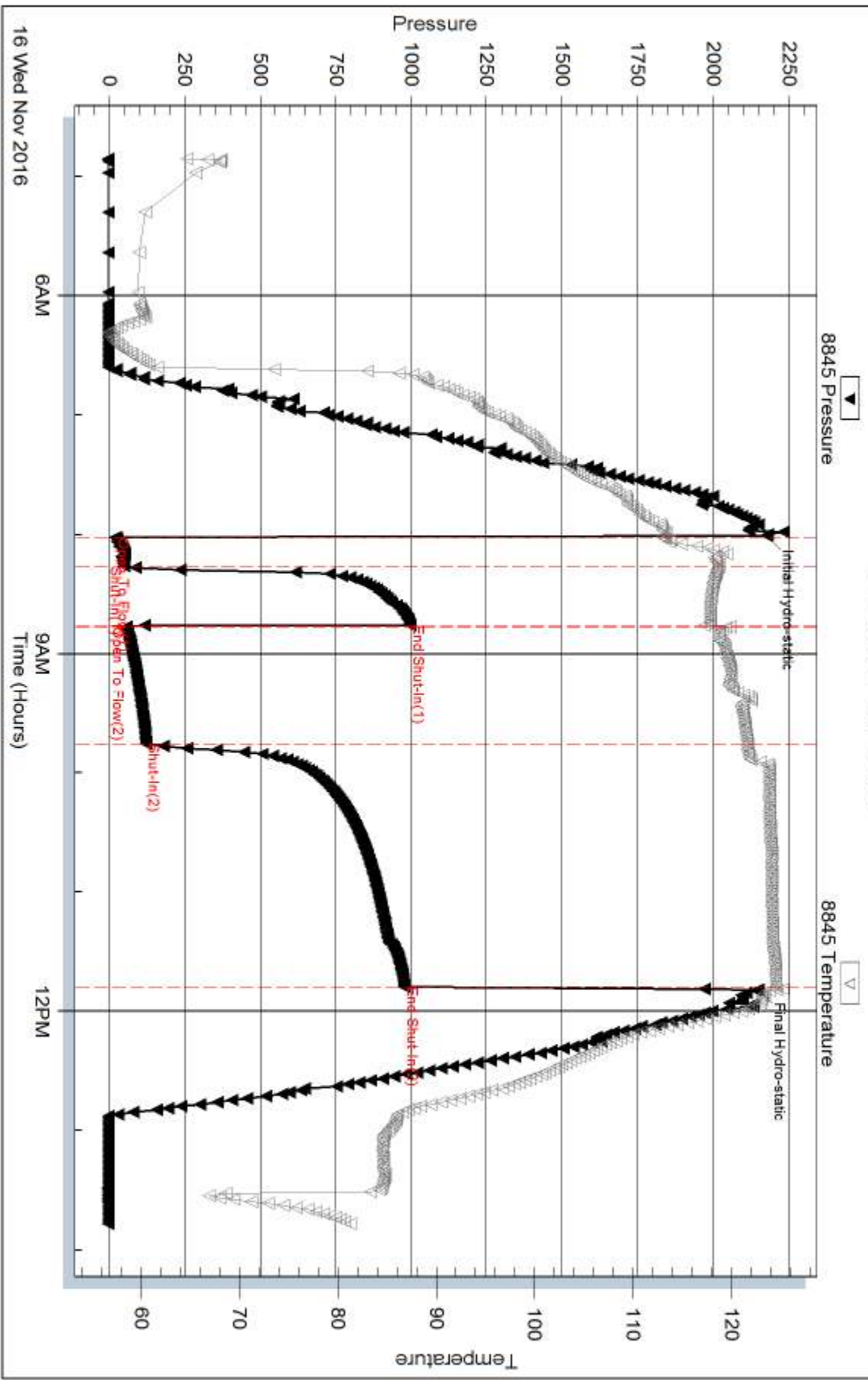
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .187 @ 75f = 42,000 ppm

### Pressure vs. Time



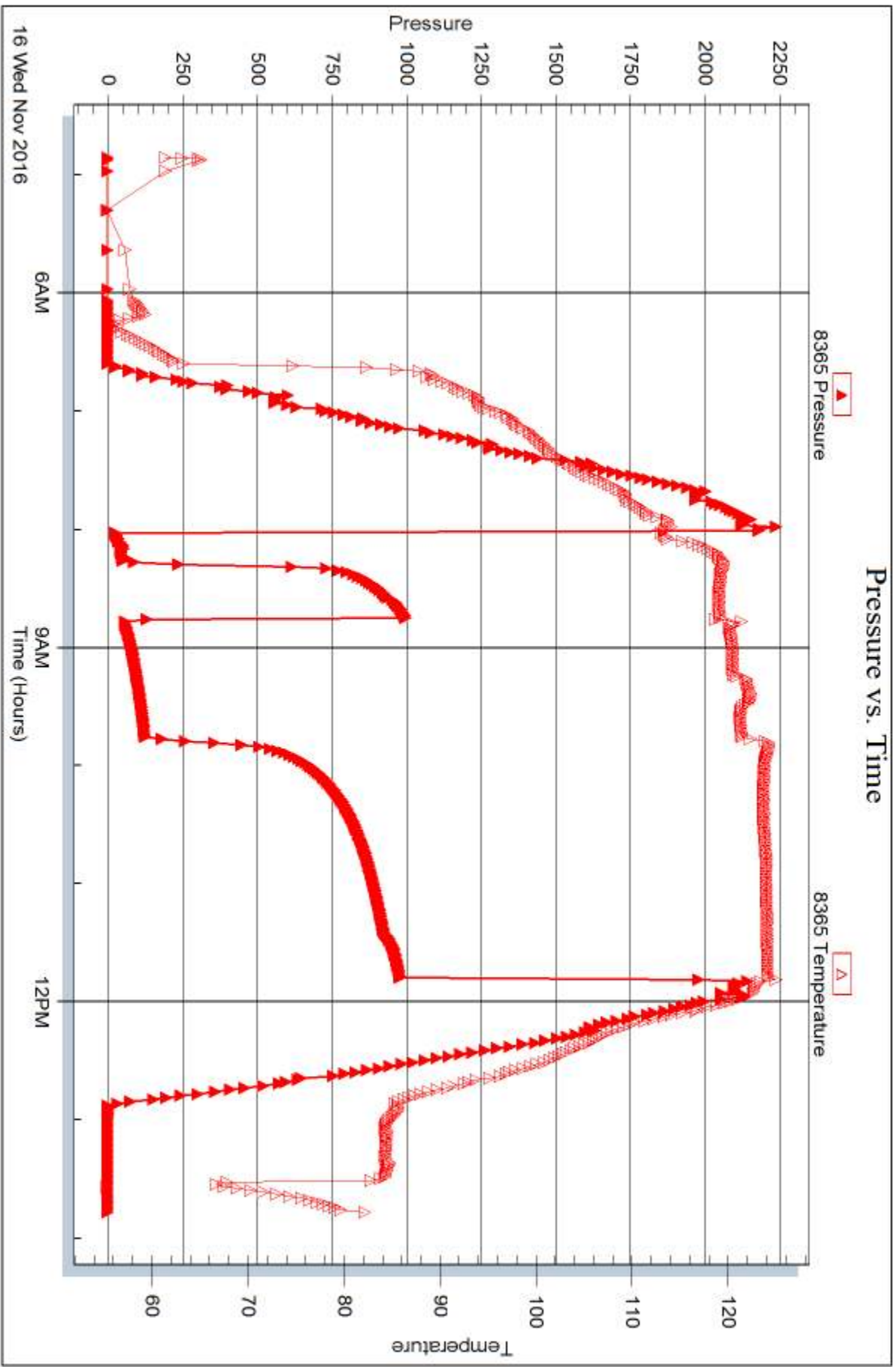
Serial #: 8365

Inside

Questa Energy Corp.

Zerr #2.23

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 63466

Printed: 2016.11.21 @ 09:24:55



## DRILL STEM TEST REPORT

Prepared For: **Questa Energy Corp.**

PO Box 509068  
Amarillo TX 79159

ATTN: Justin Carter

**Zerr #2-23**

**23-12s-31w Gove,KS**

Start Date: 2016.11.17 @ 17:31:00

End Date: 2016.11.17 @ 23:15:15

Job Ticket #: 63467                      DST #: 2

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

Printed: 2016.11.21 @ 09:22:44





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Questa Energy Corp.  
PO Box 509068  
Amarillo TX 79159  
ATTN: Justin Carter

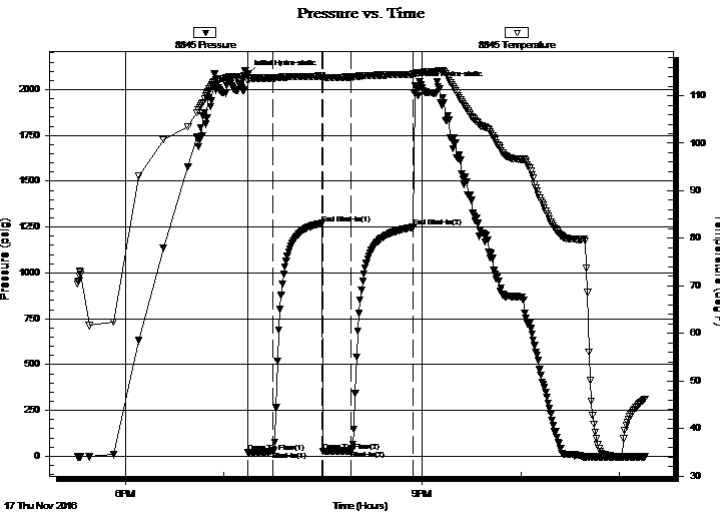
**23-12s-31w Gove,KS**  
**Zerr #2-23**  
Job Ticket: 63467      **DST#: 2**  
Test Start: 2016.11.17 @ 17:31:00

## GENERAL INFORMATION:

Formation: **LKC I**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 19:14:30  
Time Test Ended: 23:15:15  
Interval: **4092.00 ft (KB) To 4112.00 ft (KB) (TVD)**  
Total Depth: 4581.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Bradley Walter  
Unit No: 69  
Reference Elevations: 2837.00 ft (KB)  
2829.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8845**      **Inside**  
Press@RunDepth: 30.28 psig @ 4093.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2016.11.17      End Date: 2016.11.17      Last Calib.: 2016.11.17  
Start Time: 17:31:05      End Time: 23:15:14      Time On Btm: 2016.11.17 @ 19:14:00  
Time Off Btm: 2016.11.17 @ 20:55:45

TEST COMMENT: IF: 1/2" blow.  
FSI: No return.  
FF: Surface blow, died @ 15 min.  
FSI: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2081.27	114.17	Initial Hydro-static
1	21.01	113.16	Open To Flow (1)
16	25.71	113.69	Shut-In(1)
46	1270.53	114.11	End Shut-In(1)
46	27.07	113.65	Open To Flow (2)
63	30.28	113.91	Shut-In(2)
101	1250.00	114.50	End Shut-In(2)
102	2022.86	114.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	mud 100m ( oil spots)	0.19

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Questa Energy Corp.

**23-12s-31w Gove,KS**

PO Box 509068  
Amarillo TX 79159

**Zerr #2-23**

Job Ticket: 63467

**DST#: 2**

ATTN: Justin Carter

Test Start: 2016.11.17 @ 17:31:00

## Tool Information

Drill Pipe:	Length: 3840.00 ft	Diameter: 3.80 inches	Volume: 53.87 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 248.00 ft	Diameter: 2.80 inches	Volume: 1.89 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 55.76 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	77000.00 lb
Depth to Top Packer:	4092.00 ft			Final	77000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	489.00 ft				
Tool Length:	516.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4066.00	
Shut In Tool	5.00			4071.00	
Hydraulic tool	5.00			4076.00	
Jars	5.00			4081.00	
Safety Joint	2.00			4083.00	
Packer	5.00			4088.00	27.00 Bottom Of Top Packer
Packer	4.00			4092.00	
Stubb	1.00			4093.00	
Recorder	0.00	8845	Inside	4093.00	
Recorder	0.00	8365	Outside	4093.00	
Perforations	14.00			4107.00	
Blank Off Sub	1.00			4108.00	489.00 Tool Interval
Packer	4.00			4112.00	
Blank Spacing	1.00			4113.00	
Perforations	25.00			4138.00	
Change Over Sub	1.00			4139.00	
Recorder	0.00	8677	Below	4139.00	
Drill Pipe	438.00			4577.00	
Change Over Sub	1.00			4578.00	
Bullnose	3.00			4581.00	1000515.00 Bottom Packers & Anchor

**Total Tool Length: 516.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Questa Energy Corp.

**23-12s-31w Gove,KS**

PO Box 509068  
Amarillo TX 79159

**Zerr #2-23**

Job Ticket: 63467

**DST#: 2**

ATTN: Justin Carter

Test Start: 2016.11.17 @ 17:31:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 58.00 sec/qt  
Water Loss: 8.79 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1000.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 0 deg API  
Water Salinity: 0 ppm

## Recovery Information

Recovery Table

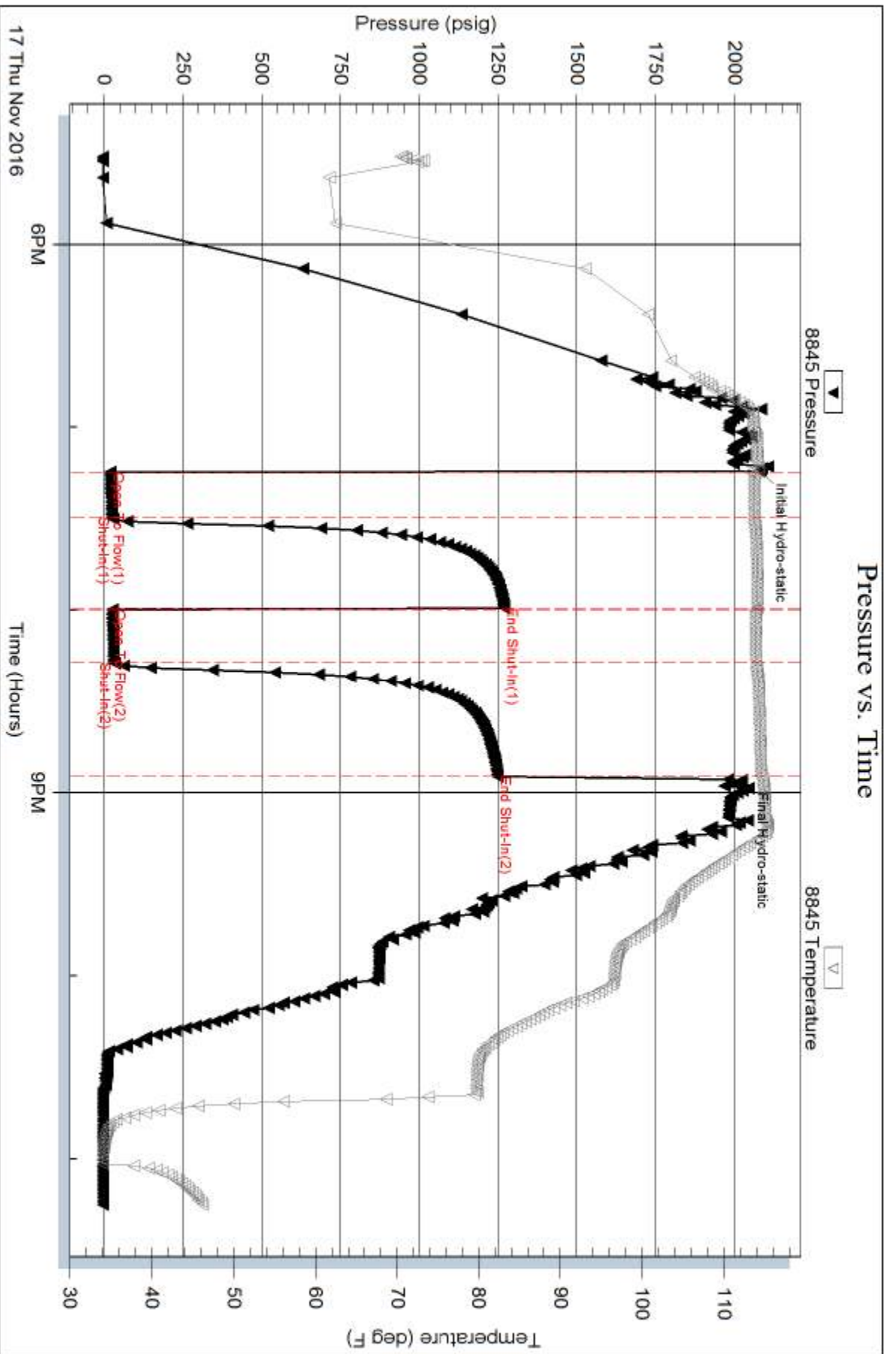
Length ft	Description	Volume bbl
25.00	mud 100m ( oil spots)	0.190

Total Length: 25.00 ft      Total Volume: 0.190 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

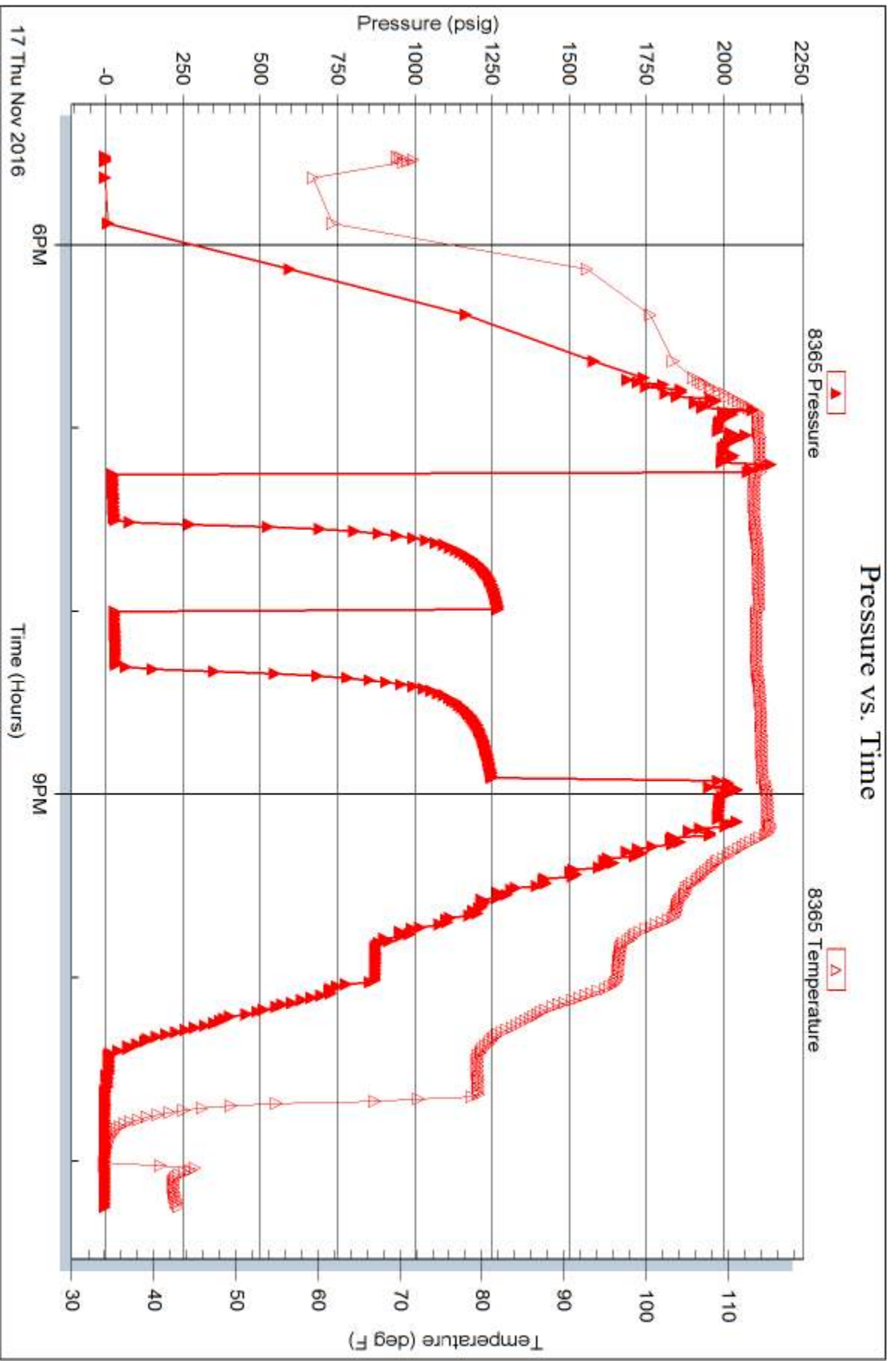


Serial #: 8365

Outside Questa Energy Corp.

Zerr #2.23

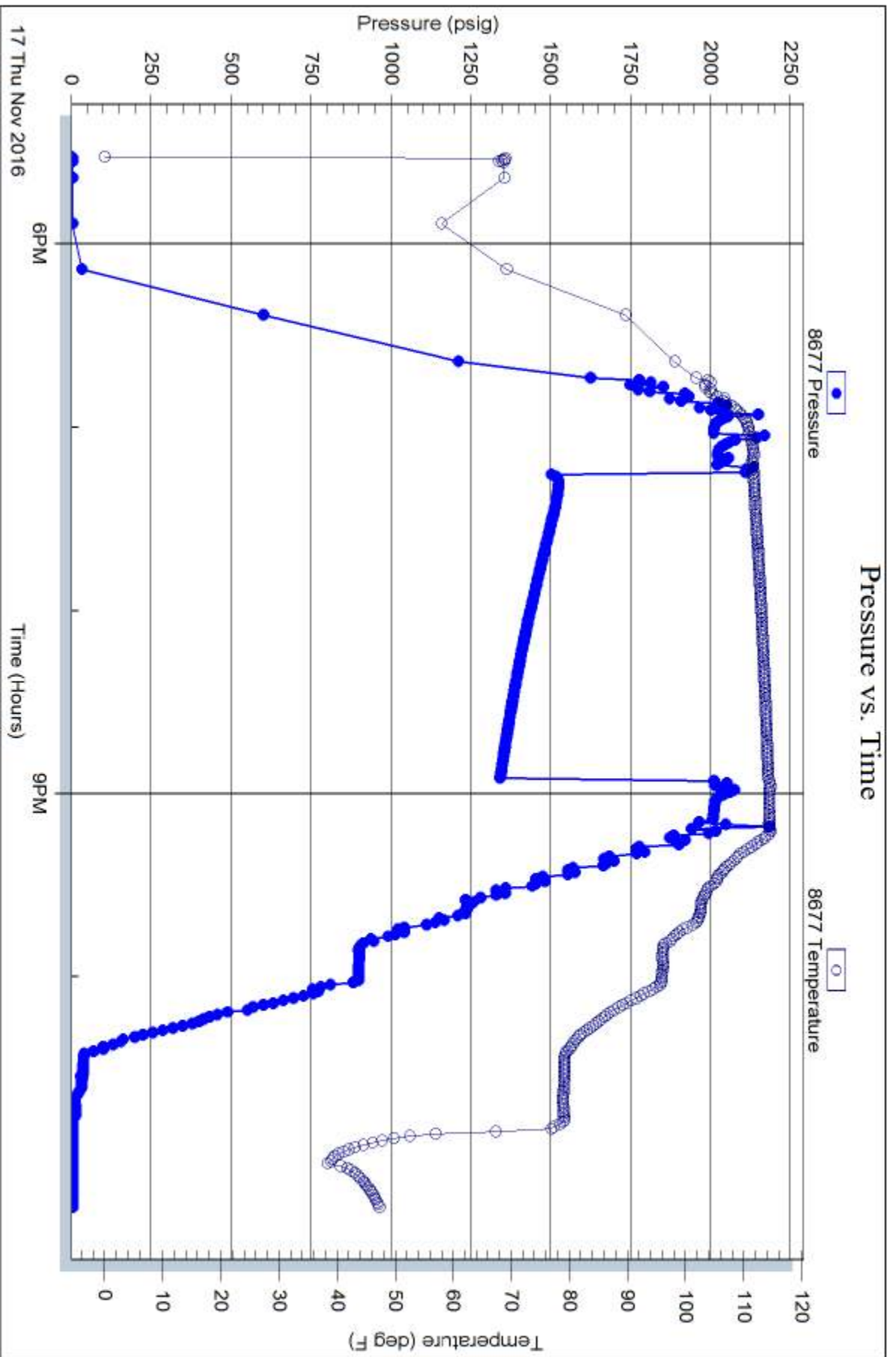
DST Test Number: 2



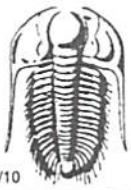
Trilobite Testing, Inc

Ref. No: 63467

Printed: 2016.11.21 @ 09:22:46







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63466

Well Name & No. Zerr 2-23 Test No. 1 Date 9/16/2016  
 Company Questa Energy Corporation Elevation 2837 KB 2829 GL  
 Address PO Box 509068 Amarillo, Tx 79159  
 Co. Rep / Geo. Justin Carter Rig Discovery #2  
 Location: Sec. 23 Twp. 12 S Rge. 31W Co. Gore State Ks

Interval Tested 4356 4390 Zone Tested Ft. Scott  
 Anchor Length 34' Drill Pipe Run 4092 Mud Wt. 9.2  
 Top Packer Depth 4351 Drill Collars Run 248 Vis 65  
 Bottom Packer Depth 4356 Wt. Pipe Run 248 WL 2.0  
 Total Depth 4390 Chlorides 2,000 ppm System LCM 2#

Blow Description IF: 5" blow  
ISF: No return.  
FF: 5 1/2" blow  
FSI. Surface return, died @ 30 min

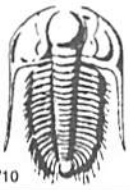
Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>6w nco</u>	<u>5</u>	<u>45</u>	<u>15</u>	<u>35</u>
<u>100</u>	<u>50 nco</u>		<u>1</u>	<u>84</u>	<u>15</u>
	<u>260' GIP</u>				

Rec Total 240 BHT 125 Gravity — API RW 187 @ 75 °F Chlorides 42,008 ppm

(A) Initial Hydrostatic <u>2178</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0350</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0451</u>
(C) First Final Flow <u>49</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0801</u>
(D) Initial Shut-In <u>997</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1146</u>
(E) Second Initial Flow <u>56</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1347</u>
(F) Second Final Flow <u>122</u>	<input checked="" type="checkbox"/> Mileage <u>98 RT</u> <u>73.50</u>	Comments
(G) Final Shut-In <u>976</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2150</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1548.50</u>
Final Shut-In <u>120</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1548.50</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

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



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63467**

Well Name & No. Zell 2-23 Test No. 2 Date 11/17/2016  
 Company Questa Energy Corporation Elevation 2837 KB 2829 GL  
 Address PO Box 509068 Amarillo, Tx 79159  
 Co. Rep / Geo. Justin Carter Rig Discovery 2  
 Location: Sec. 23 Twp. 12s Rge. 31w Co. Gove State Ks

Interval Tested 4092 - 4112 Zone Tested LKC I  
 Anchor Length 20' - 48 TP Drill Pipe Run 3840 Mud Wt. 9.2  
 Top Packer Depth 4087 - 4092 Drill Collars Run 0 Vis 59  
~~Bottom~~ Packer Depth 4112 Wt. Pipe Run 248 WL 8.8  
 Total Depth 4581 Chlorides 2,000 ppm System LCM 2#

Blow Description IF! 1/2" blow  
IGT! No return.  
FF! Surface blow died @ 15 min.  
FGI! No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>mud</u>			<u>100</u>	
	<u>OIL SPOTS</u>				

Rec Total 25 BHT 115 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2081  Test 1150 T-On Location 1500  
 (B) First Initial Flow 21  Jars 250 T-Started 1731  
 (C) First Final Flow 26  Safety Joint 75 T-Open 1912  
 (D) Initial Shut-In 1271  Circ Sub \_\_\_\_\_ T-Pulled 2043  
 (E) Second Initial Flow 27  Hourly Standby \_\_\_\_\_ T-Out 2315  
 (F) Second Final Flow 30  Mileage 73.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1250  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2023  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 15  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 2398.50  
 Final Flow 15  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 2398.50

Approved By \_\_\_\_\_ Our Representative [Signature]

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