



## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S Voss RD STE 600  
Houston TX 77057

ATTN: Terry McLeod

### **Felt #1-29**

#### **29-17s-34w Scott,KS**

Start Date: 2017.04.17 @ 03:40:00

End Date: 2017.04.17 @ 11:56:05

Job Ticket #: 59460                      DST #: 1

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

Printed: 2017.04.21 @ 13:56:37



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources Inc.

**29-17s-34w Scott,KS**

1616 S Voss RD STE 600  
Houston TX 77057

**Felt #1-29**

Job Ticket: 59460

**DST#: 1**

ATTN: Terry McLeod

Test Start: 2017.04.17 @ 03:40:00

## GENERAL INFORMATION:

Formation: **LKC I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:19:15

Time Test Ended: 11:56:05

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

**Interval: 4308.00 ft (KB) To 4320.00 ft (KB) (TVD)**

Reference Elevations: 3160.00 ft (KB)

Total Depth: 4320.00 ft (KB) (TVD)

3150.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8289 Inside**

Press@RunDepth: 16.71 psig @ 4317.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.17 End Date: 2017.04.17

Last Calib.: 2017.04.17

Start Time: 03:40:02 End Time: 11:56:04

Time On Btm: 2017.04.17 @ 07:19:00

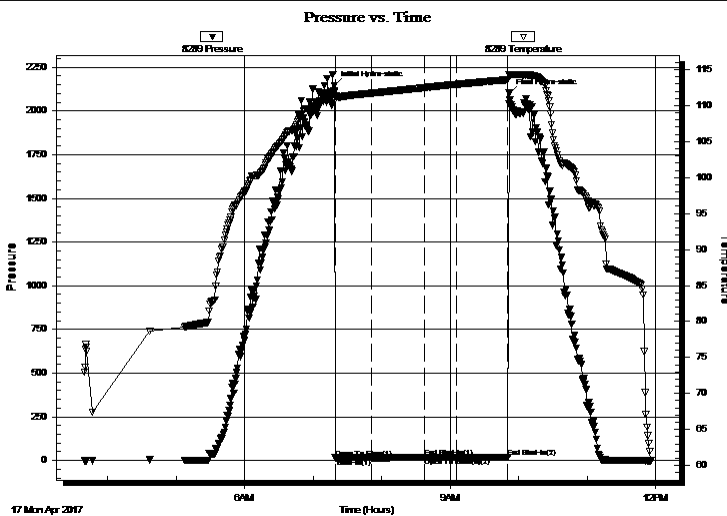
Time Off Btm: 2017.04.17 @ 09:51:35

TEST COMMENT: IF: Weak surface blow, died 15 min.

IS: No blow back

FF: No blow

FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2144.86	111.88	Initial Hydro-static
1	15.45	110.87	Open To Flow (1)
33	14.78	111.71	Shut-In(1)
79	17.53	112.49	End Shut-In(1)
79	17.49	112.49	Open To Flow (2)
107	16.71	112.94	Shut-In(2)
152	16.78	113.58	End Shut-In(2)
153	2101.07	114.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.02

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources Inc.

**29-17s-34w Scott,KS**

1616 S Voss RD STE 600  
Houston TX 77057

**Felt #1-29**

Job Ticket: 59460

**DST#: 1**

ATTN: Terry McLeod

Test Start: 2017.04.17 @ 03:40:00

## Tool Information

Drill Pipe:	Length: 4046.00 ft	Diameter: 3.80 inches	Volume: 56.75 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: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 57.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4308.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4281.00	
Shut In Tool	5.00			4286.00	
Hydraulic tool	5.00			4291.00	
Jars	5.00			4296.00	
Safety Joint	3.00			4299.00	
Packer	5.00			4304.00	28.00 Bottom Of Top Packer
Packer	4.00			4308.00	
Stubb	1.00			4309.00	
Perforations	3.00			4312.00	
Perforations	5.00			4317.00	
Recorder	0.00	8289	Inside	4317.00	
Recorder	0.00	6672	Outside	4317.00	
Bullnose	3.00			4320.00	12.00 Bottom Packers & Anchor

**Total Tool Length: 40.00**



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TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources Inc.

**29-17s-34w Scott,KS**

1616 S Voss RD STE 600  
Houston TX 77057

**Felt #1-29**

Job Ticket: 59460

**DST#: 1**

ATTN: Terry McLeod

Test Start: 2017.04.17 @ 03:40:00

## 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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

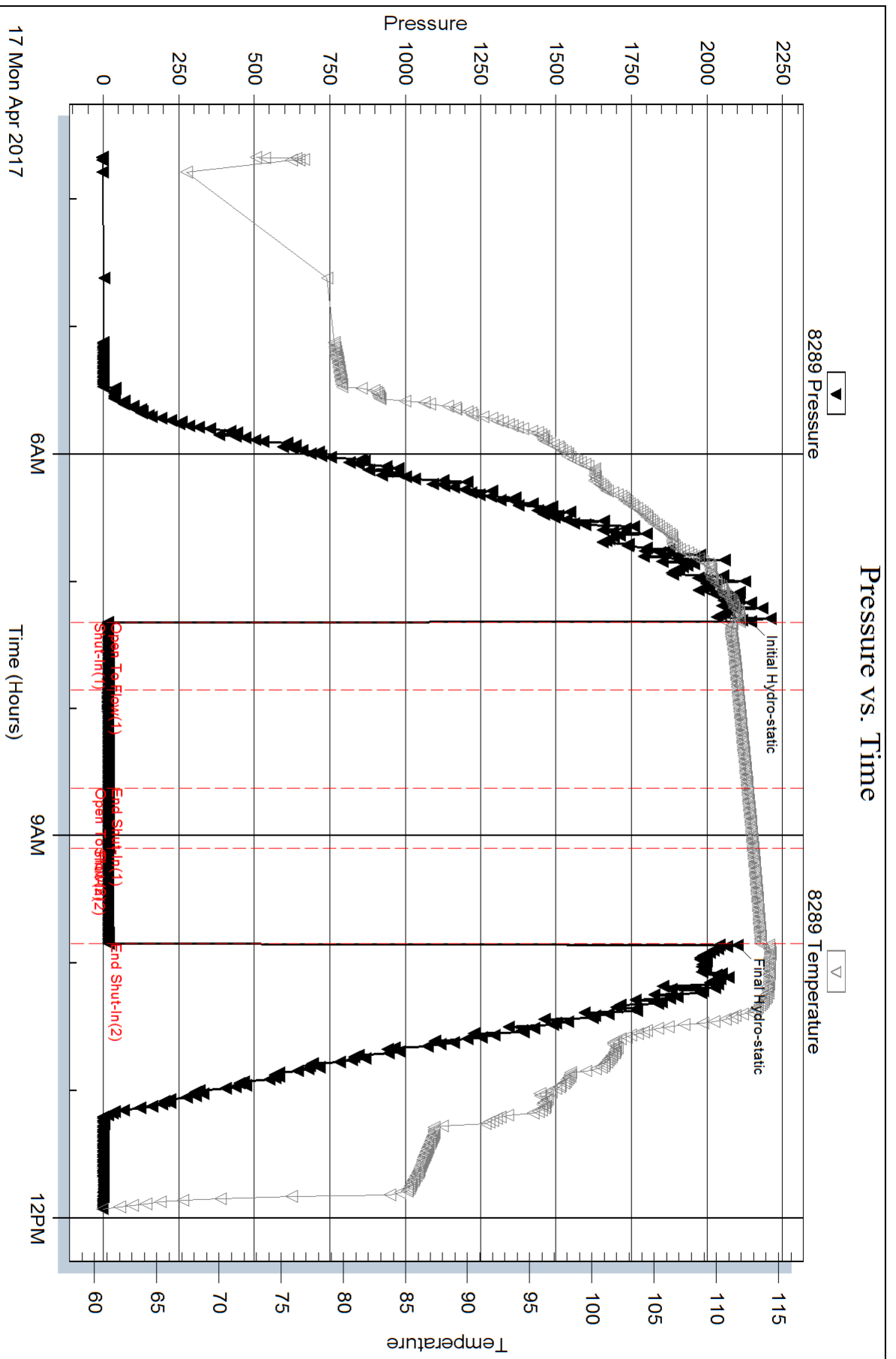
Num Gas Bombs: 0

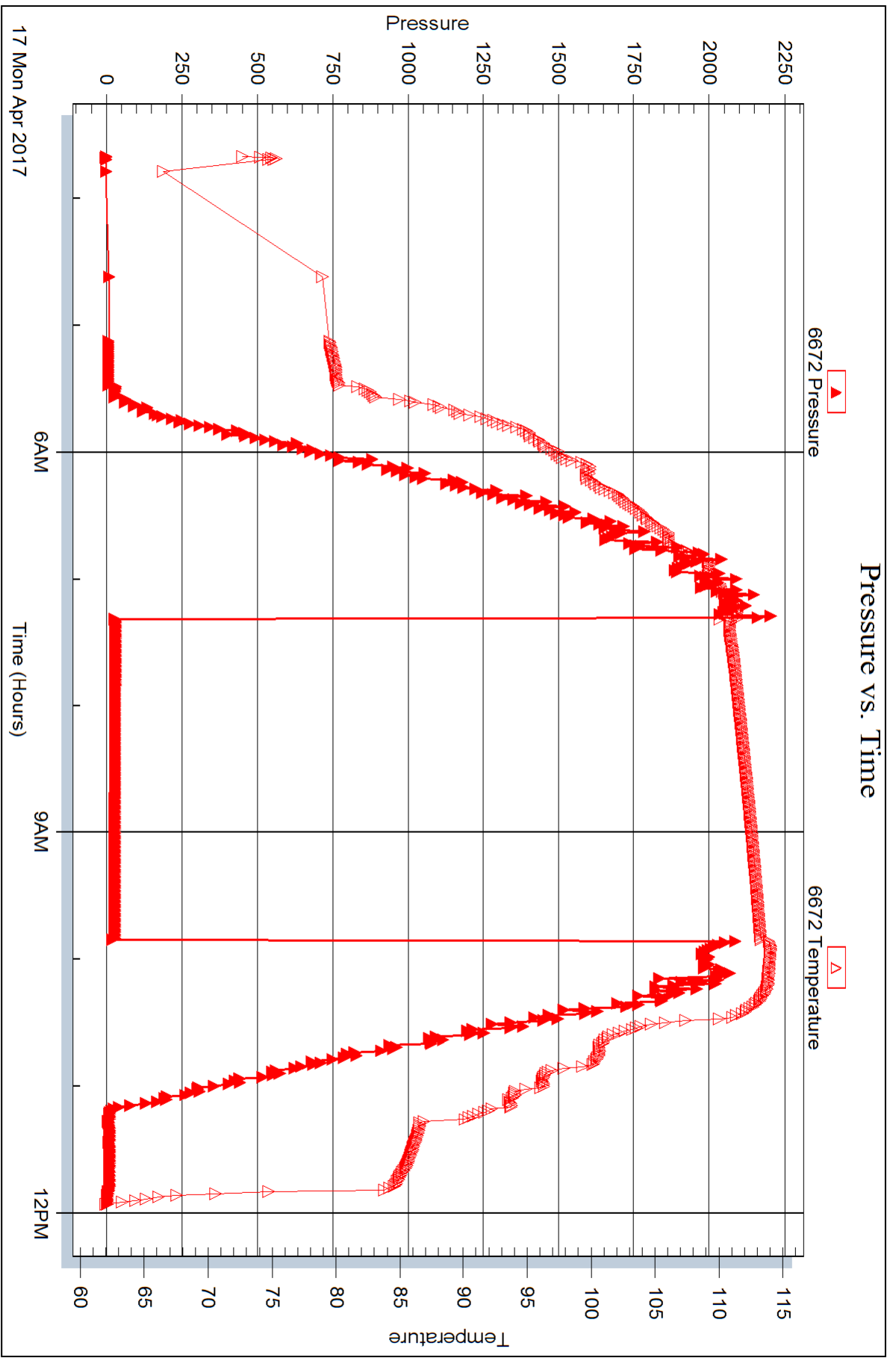
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S Voss RD STE 600  
Houston TX 77057

ATTN: Terry McLeod

### **Felt #1-29**

### **29-17s-34w Scott,KS**

Start Date: 2017.04.18 @ 08:00:00

End Date: 2017.04.18 @ 14:51:54

Job Ticket #: 59461                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.04.21 @ 13:56:16





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources Inc.

**29-17s-34w Scott,KS**

1616 S Voss RD STE 600  
Houston TX 77057

**Felt #1-29**

Job Ticket: 59461

**DST#: 2**

ATTN: Terry McLeod

Test Start: 2017.04.18 @ 08:00:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:40:20

Time Test Ended: 14:51:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

**Interval: 4517.00 ft (KB) To 4525.00 ft (KB) (TVD)**

Reference Elevations: 3160.00 ft (KB)

Total Depth: 4535.00 ft (KB) (TVD)

3150.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8289**

**Inside**

Press@RunDepth: 129.42 psig @ 4532.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.18

End Date:

2017.04.18

Last Calib.: 1899.12.30

Start Time: 08:00:02

End Time:

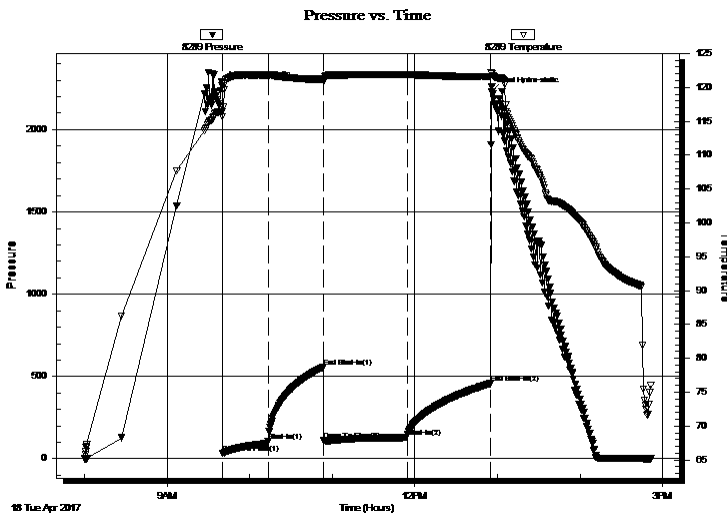
14:51:55

Time On Btm: 2017.04.18 @ 09:39:50

Time Off Btm: 2017.04.18 @ 12:55:50

**TEST COMMENT:** IF: 5 1/2" in 30 min., strong building blow  
IS: No blow back  
FF: 1" in 25 min., steady dying blow  
FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2267.92	116.44	Initial Hydro-static
1	32.27	115.67	Open To Flow (1)
34	108.17	121.79	Shut-In(1)
74	557.95	121.16	End Shut-In(1)
74	114.22	120.96	Open To Flow (2)
135	129.42	121.89	Shut-In(2)
195	457.60	121.57	End Shut-In(2)
196	2230.98	121.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	oil spotted water	1.27

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources Inc.

**29-17s-34w Scott,KS**

1616 S Voss RD STE 600  
Houston TX 77057

**Felt #1-29**

Job Ticket: 59461

**DST#: 2**

ATTN: Terry McLeod

Test Start: 2017.04.18 @ 08:00:00

## Tool Information

Drill Pipe:	Length: 4265.00 ft	Diameter: 3.80 inches	Volume: 59.83 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: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 61.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4517.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	46.00 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			4490.00	
Shut In Tool	5.00			4495.00	
Hydraulic tool	5.00			4500.00	
Jars	5.00			4505.00	
Safety Joint	3.00			4508.00	
Packer	5.00			4513.00	28.00 Bottom Of Top Packer
Packer	4.00			4517.00	
Stubb	1.00			4518.00	
Perforations	1.00			4519.00	
Perforations	13.00			4532.00	
Recorder	0.00	8289	Inside	4532.00	
Recorder	0.00	6672	Outside	4532.00	
Bullnose	3.00			4535.00	18.00 Bottom Packers & Anchor

**Total Tool Length: 46.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Landmark Resources Inc.

**29-17s-34w Scott,KS**

1616 S Voss RD STE 600  
Houston TX 77057

**Felt #1-29**

Job Ticket: 59461

**DST#: 2**

ATTN: Terry McLeod

Test Start: 2017.04.18 @ 08:00:00

### 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:

32000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	oil spotted w ater	1.266

Total Length: 250.00 ft      Total Volume: 1.266 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

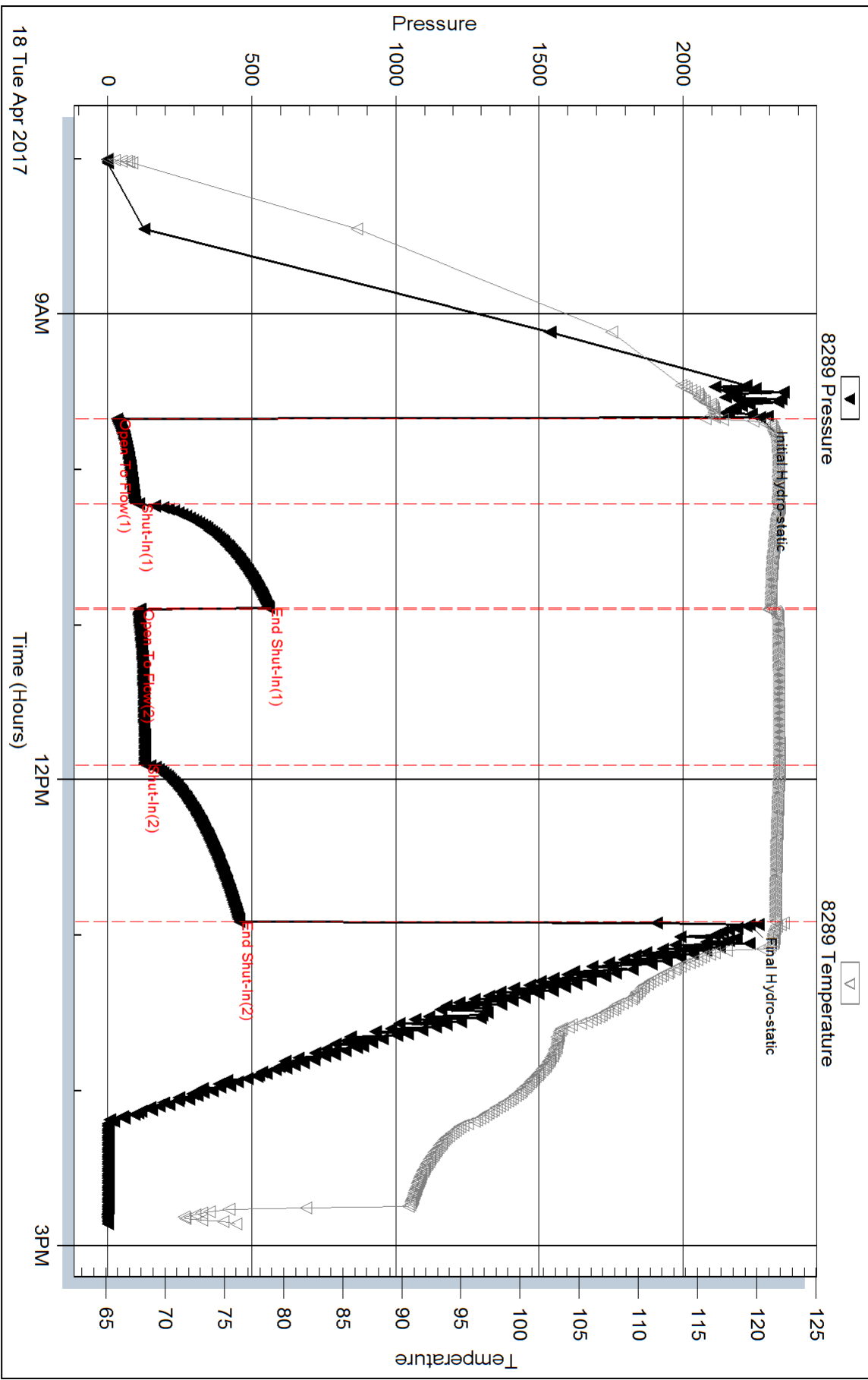
Serial #:

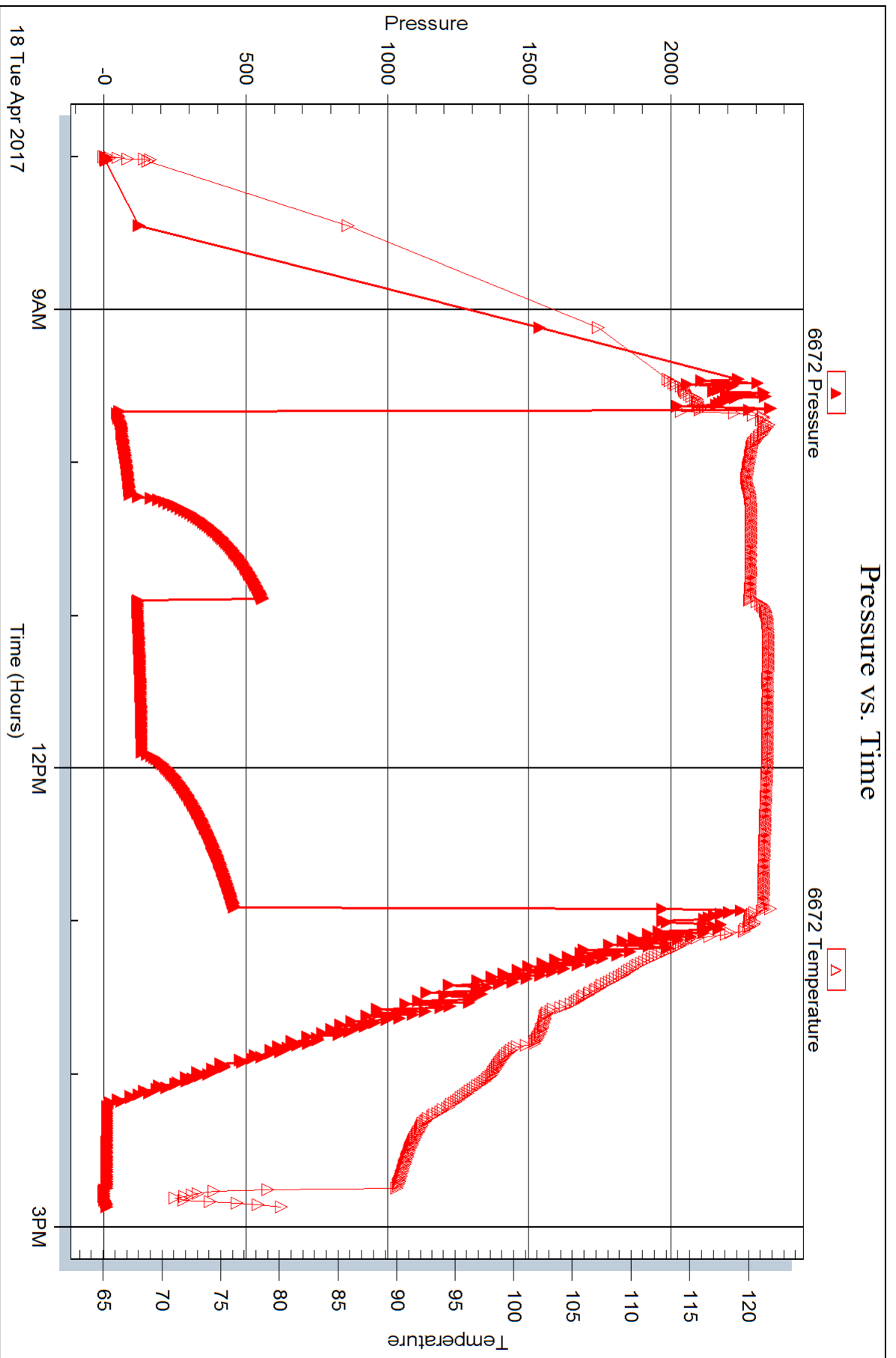
Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.170@86F=32000

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S Voss RD STE 600  
Houston TX 77057

ATTN: Terry McLeod

### **Felt #1-29**

#### **29-17s-34w Scott,KS**

Start Date: 2017.04.18 @ 21:20:00

End Date: 2017.04.19 @ 03:50:15

Job Ticket #: 59462                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.04.21 @ 13:55:53



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources Inc.

**29-17s-34w Scott,KS**

1616 S Voss RD STE 600  
Houston TX 77057

**Felt #1-29**

Job Ticket: 59462

**DST#: 3**

ATTN: Terry McLeod

Test Start: 2017.04.18 @ 21:20:00

## GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:45:45

Time Test Ended: 03:50:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

**Interval: 4537.00 ft (KB) To 4550.00 ft (KB) (TVD)**

Reference Elevations: 3160.00 ft (KB)

Total Depth: 4550.00 ft (KB) (TVD)

3150.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8289 Inside**

Press@RunDepth: 35.82 psig @ 4547.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.18

End Date:

2017.04.19

Last Calib.: 1899.12.30

Start Time: 21:20:02

End Time:

03:50:15

Time On Btm: 2017.04.18 @ 23:45:25

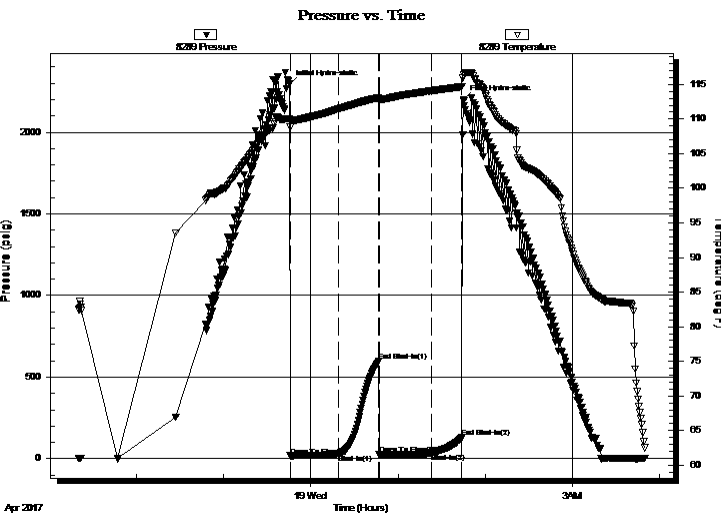
Time Off Btm: 2017.04.19 @ 01:45:09

**TEST COMMENT:** IF: .5" in 15 min., died in 25 min.

IS: No blow back

FF: No blow

FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2293.06	110.10	Initial Hydro-static
1	17.51	108.81	Open To Flow (1)
34	27.19	111.44	Shut-In(1)
62	596.70	113.08	End Shut-In(1)
62	24.66	112.76	Open To Flow (2)
98	35.82	114.08	Shut-In(2)
119	128.17	114.68	End Shut-In(2)
120	2198.84	116.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	oil spotted mud	0.02

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources Inc.

**29-17s-34w Scott,KS**

1616 S Voss RD STE 600  
Houston TX 77057

**Felt #1-29**

Job Ticket: 59462

**DST#: 3**

ATTN: Terry McLeod

Test Start: 2017.04.18 @ 21:20:00

## Tool Information

Drill Pipe:	Length: 4267.00 ft	Diameter: 3.80 inches	Volume: 59.85 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: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4537.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4510.00	
Shut In Tool	5.00			4515.00	
Hydraulic tool	5.00			4520.00	
Jars	5.00			4525.00	
Safety Joint	3.00			4528.00	
Packer	5.00			4533.00	28.00 Bottom Of Top Packer
Packer	4.00			4537.00	
Stubb	1.00			4538.00	
Perforations	1.00			4539.00	
Perforations	8.00			4547.00	
Recorder	0.00	8289	Inside	4547.00	
Recorder	0.00	6672	Outside	4547.00	
Bullnose	3.00			4550.00	13.00 Bottom Packers & Anchor

**Total Tool Length: 41.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources Inc.

**29-17s-34w Scott,KS**

1616 S Voss RD STE 600  
Houston TX 77057

**Felt #1-29**

Job Ticket: 59462

**DST#: 3**

ATTN: Terry McLeod

Test Start: 2017.04.18 @ 21:20:00

## 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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	oil spotted mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

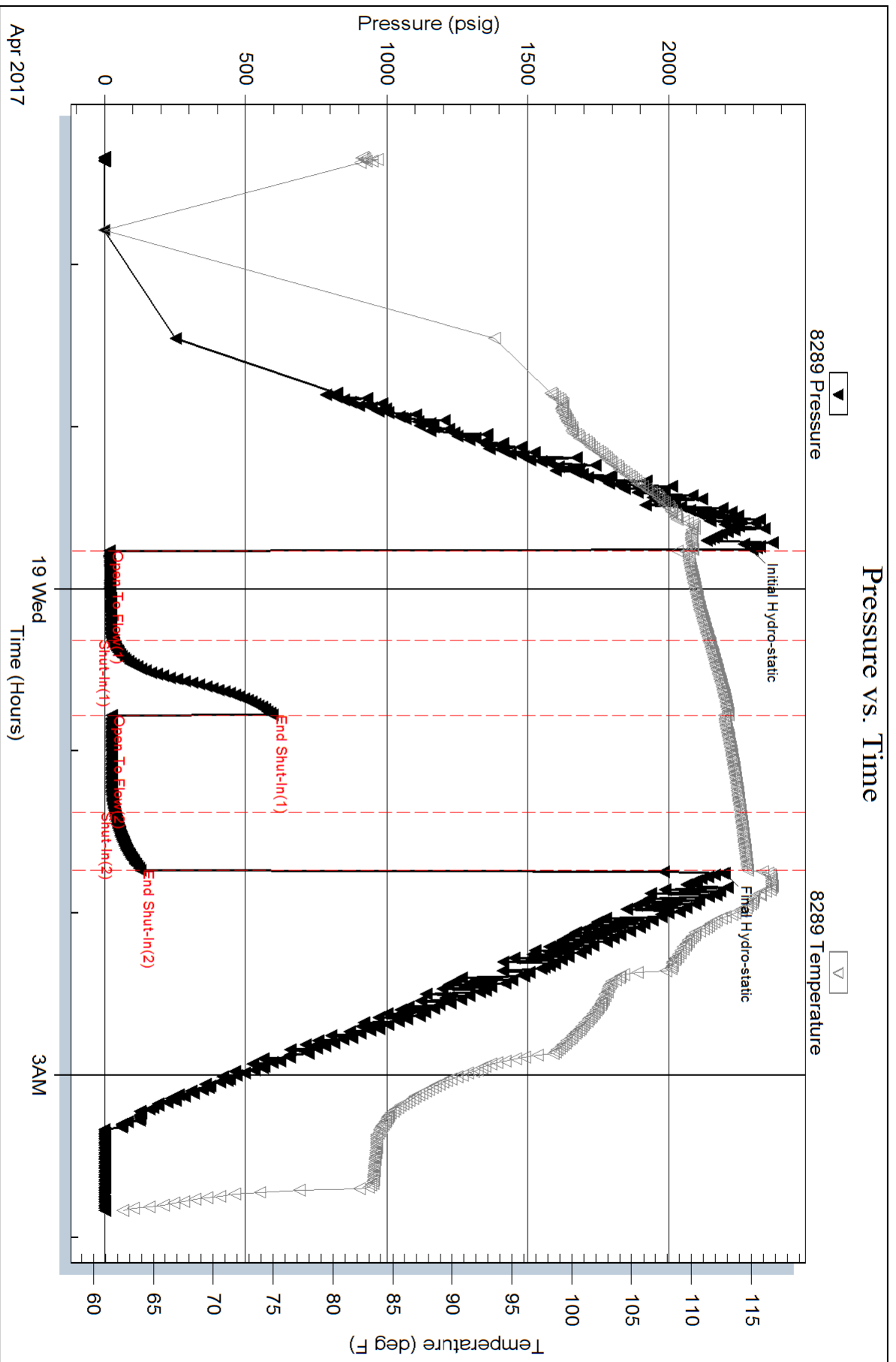
Serial #:

Laboratory Name:

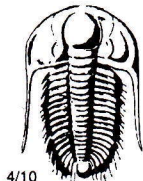
Laboratory Location:

Recovery Comments:

# Pressure vs. Time







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59460

4/10

Well Name & No. Felt 129 Test No. 1 Date 4-17-17  
 Company Landmark Resources Inc. Elevation 3160 KB 3150 GL  
 Address 1616 S Voss RD STE 600 HOUSTON, TX 77057  
 Co. Rep / Geo. Terry McLeod Rig Murphy #21  
 Location: Sec. 29 Twp. 17 Rge. 34 Co. Scott State KS

Interval Tested 4308-4320 Zone Tested Lansing - I  
 Anchor Length 12' Drill Pipe Run 4046 Mud Wt. 9.3  
 Top Packer Depth 4303 Drill Collars Run 246 Vis 61  
 Bottom Packer Depth 4308 Wt. Pipe Run N.A. WL 6.4  
 Total Depth 4320 Chlorides 3000 ppm System LCM 2#

Blow Description IF: Weak surface blow, died 15 min.  
IST: No blow back  
FP: No blow  
FST: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</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

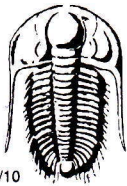
Rec Total 5' BHT 113 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2144  Test 1150 T-On Location 0300  
 (B) First Initial Flow 15  Jars 250 T-Started 0430  
 (C) First Final Flow 15  Safety Joint 75 T-Open 0720  
 (D) Initial Shut-In 18  Circ Sub \_\_\_\_\_ T-Pulled 0950  
 (E) Second Initial Flow 18  Hourly Standby \_\_\_\_\_ T-Out 1130  
 (F) Second Final Flow 17  Mileage x 30 22.50 Comments Sett on @ 0340  
 (G) Final Shut-In 17  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2101  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 1497.50  
 Final Flow 30  Day Standby \_\_\_\_\_ Total \_\_\_\_\_  
 Final Shut-In 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1497.50

Approved By Terry McLeod Our Representative Chris Hegran

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. 59461

4/10

Well Name & No. Felt 1-29 Test No. 2 Date 4-18-17  
 Company Landmark Resources, Inc Elevation 3160 KB 3150 GL  
 Address 1616 S Joss RD STE 600 Houston, TX 77057  
 Co. Rep / Geo. Terry McLean Rig Murfin #21  
 Location: Sec. 29 Twp. 17 Rge. 34 Co. Scott State KS

Interval Tested 4517-4535 Zone Tested Permian  
 Anchor Length 18' Drill Pipe Run 4265 Mud Wt. 9.3  
 Top Packer Depth 4512 Drill Collars Run 246 Vis 67  
 Bottom Packer Depth 4517 Wt. Pipe Run N.A. WL 7.2  
 Total Depth 4535 Chlorides 3300 ppm System LCM 3#

Blow Description IF: 5.5 inches in 30 min., strong building blow  
ISL: No blow back  
FF: 1 inch 25 min, steady drilling blow  
PSL: No blow back

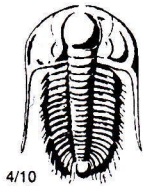
Rec	Feet of	%gas	%oil	%water	%mud
<u>550</u>	<u>oil spotted water</u>	<u>spot</u>	<u>100</u>	<u>0</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 250 BHT 122 Gravity \_\_\_\_\_ API RW .170 @ 86 °F Chlorides 32,000 ppm

(A) Initial Hydrostatic <u>2267</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0700</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0800</u>
(C) First Final Flow <u>108</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0940</u>
(D) Initial Shut-In <u>558</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1255</u>
(E) Second Initial Flow <u>114</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____
(F) Second Final Flow <u>129</u>	<input checked="" type="checkbox"/> Mileage <u>x 30</u> 22.50	Comments <u>Est. on @ 0800</u>
(G) Final Shut-In <u>458</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2231</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input checked="" type="checkbox"/> Shale Packer <u>x 1.0</u> 250	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1747.50</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1747.50</u>	

Approved By Jay L. M. [Signature] Our Representative [Signature] Chris Hagan

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. **59462**

4/10

Well Name & No. Felt 1-29 Test No. 3 Date 4-18-17  
 Company Landmark Resources, Inc Elevation 3160 KB 3150 GL  
 Address 1616 S Boss RD STE 600 Houston, TX 77057  
 Co. Rep / Geo. Terry McLean Rig Multilin 21  
 Location: Sec. 29 Twp. 17 Rge. 34 Co. Scott State KS

Interval Tested 4537-4550 Zone Tested Altamont  
 Anchor Length 13' Drill Pipe Run 4267 Mud Wt. 9.3  
 Top Packer Depth 4532 Drill Collars Run 246 Vis 61  
 Bottom Packer Depth 4537 Wt. Pipe Run N.A. WL 8.0  
 Total Depth 4550 Chlorides 4000 ppm System LCM 2#

Blow Description IF: 2.5 inches in 15 min, dried 25 min  
1ST: No blow back  
PF: No blow  
1ST: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>S</u>	<u>oil spotted mud</u>	<u>Spot</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 S BHT 115 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2293</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2100</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2200</u>
(C) First Final Flow <u>27</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2350</u>
(D) Initial Shut-In <u>597</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0400 0150</u>
(E) Second Initial Flow <u>25</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0400</u>
(F) Second Final Flow <u>36</u>	<input checked="" type="checkbox"/> Mileage <u>x30</u> <u>22.50</u>	Comments <u>Bot on @ 2120</u>
(G) Final Shut-In <u>128</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2199</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</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>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1497.50</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1497.50</u>	

Approved By Terry McLean Our Representative Chris Heyman

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