



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc**

1616 S Voss. Rd Ste 600
Houston, TX 77057

ATTN: Wes Hansen

Janzen #1-1

1-17s-34w Scott, KS

Start Date: 2013.12.18 @ 19:07:58

End Date: 2013.12.19 @ 02:22:13

Job Ticket #: 54674 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.12.24 @ 14:10:26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources Inc

1-17s-34w Scott, KS

1616 S Voss. Rd Ste 600
Houston, TX 77057

Janzen #1-1

Job Ticket: 54674

DST#: 1

ATTN: Wes Hansen

Test Start: 2013.12.18 @ 19:07:58

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:23:43

Time Test Ended: 02:22:13

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

Interval: 4410.00 ft (KB) To 4459.00 ft (KB) (TVD)

Reference Elevations: 3110.00 ft (KB)

Total Depth: 4459.00 ft (KB) (TVD)

3099.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6771

Inside

Press@RunDepth: 30.23 psig @ 4411.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.18

End Date:

2013.12.19

Last Calib.:

2013.12.19

Start Time: 19:07:58

End Time:

02:10:13

Time On Btm:

2013.12.18 @ 21:23:28

Time Off Btm:

2013.12.18 @ 23:56:28

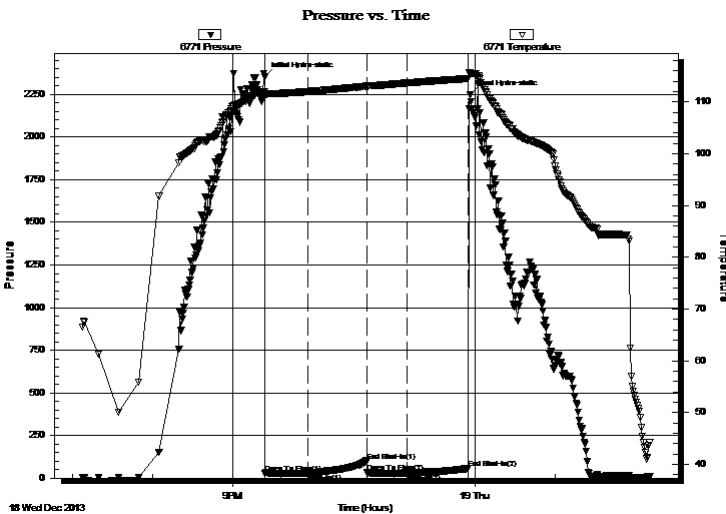
TEST COMMENT: Surface blow died in 5 min.

No return

No blow

No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2351.31	112.03	Initial Hydro-static
1	27.60	111.44	Open To Flow (1)
32	26.95	111.99	Shut-In(1)
76	100.70	113.03	End Shut-In(1)
77	34.34	113.02	Open To Flow (2)
106	30.23	113.67	Shut-In(2)
152	57.48	114.52	End Shut-In(2)
153	2246.27	115.64	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
2.00	mud 100% show of oil in tool	0.01

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources Inc
 1616 S Voss. Rd Ste 600
 Houston, TX 77057
 ATTN: Wes Hansen

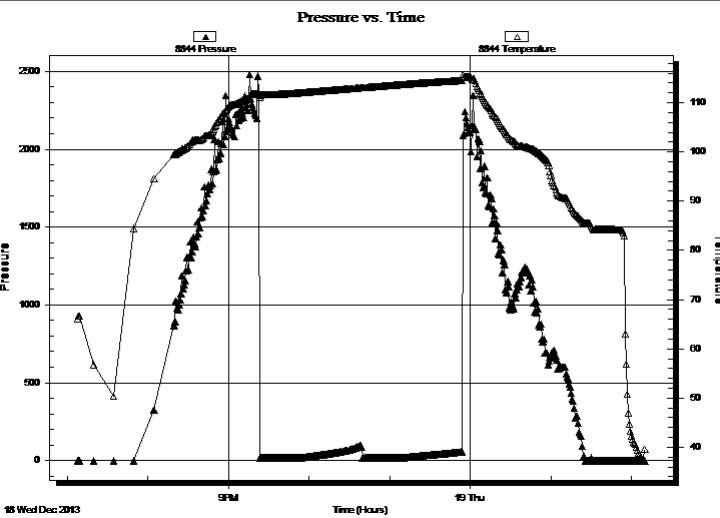
1-17s-34w Scott, KS
Janzen #1-1
 Job Ticket: 54674 **DST#: 1**
 Test Start: 2013.12.18 @ 19:07:58

GENERAL INFORMATION:

Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 21:23:43 Tester: Shane McBride
 Time Test Ended: 02:22:13 Unit No: 55
 Interval: **4410.00 ft (KB) To 4459.00 ft (KB) (TVD)** Reference Elevations: 3110.00 ft (KB)
 Total Depth: 4459.00 ft (KB) (TVD) 3099.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8844 Outside
 Press@RunDepth: psig @ 4411.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.18 End Date: 2013.12.19 Last Calib.: 2013.12.19
 Start Time: 19:07:50 End Time: 02:09:50 Time On Btm:
 Time Off Btm:

TEST COMMENT: Surface blow died in 5 min.
 No return
 No blow
 No return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
2.00	mud 100% show of oil in tool	0.01

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc

1-17s-34w Scott, KS

1616 S Voss. Rd Ste 600
Houston, TX 77057

Janzen #1-1

Job Ticket: 54674

DST#: 1

ATTN: Wes Hansen

Test Start: 2013.12.18 @ 19:07:58

Tool Information

Drill Pipe:	Length: 4169.00 ft	Diameter: 3.80 inches	Volume: 58.48 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 59.65 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4410.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	49.00 ft			
Tool Length:	77.00 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			4383.00	
Shut In Tool	5.00			4388.00	
Hydraulic tool	5.00			4393.00	
Jars	5.00			4398.00	
Safety Joint	3.00			4401.00	
Packer	5.00			4406.00	28.00 Bottom Of Top Packer
Packer	4.00			4410.00	
Stubb	1.00			4411.00	
Recorder	0.00	6771	Inside	4411.00	
Recorder	0.00	8844	Outside	4411.00	
Perforations	9.00			4420.00	
Change Over Sub	1.00			4421.00	
Drill Pipe	32.00			4453.00	
Change Over Sub	1.00			4454.00	
Bullnose	5.00			4459.00	49.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc

1-17s-34w Scott, KS

1616 S Voss. Rd Ste 600
Houston, TX 77057

Janzen #1-1

Job Ticket: 54674

DST#: 1

ATTN: Wes Hansen

Test Start: 2013.12.18 @ 19:07:58

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100% m show of oil in tool	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

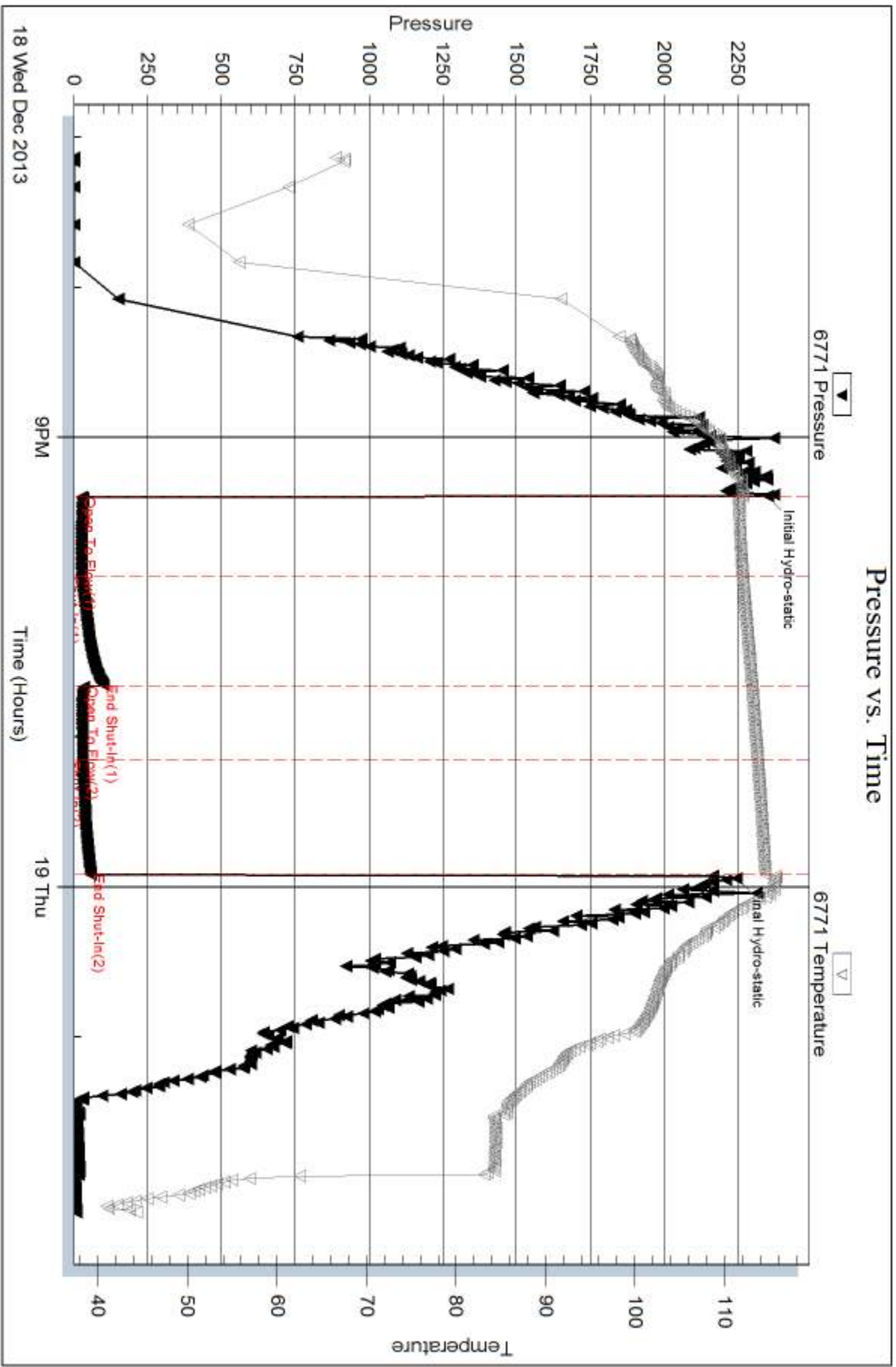
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

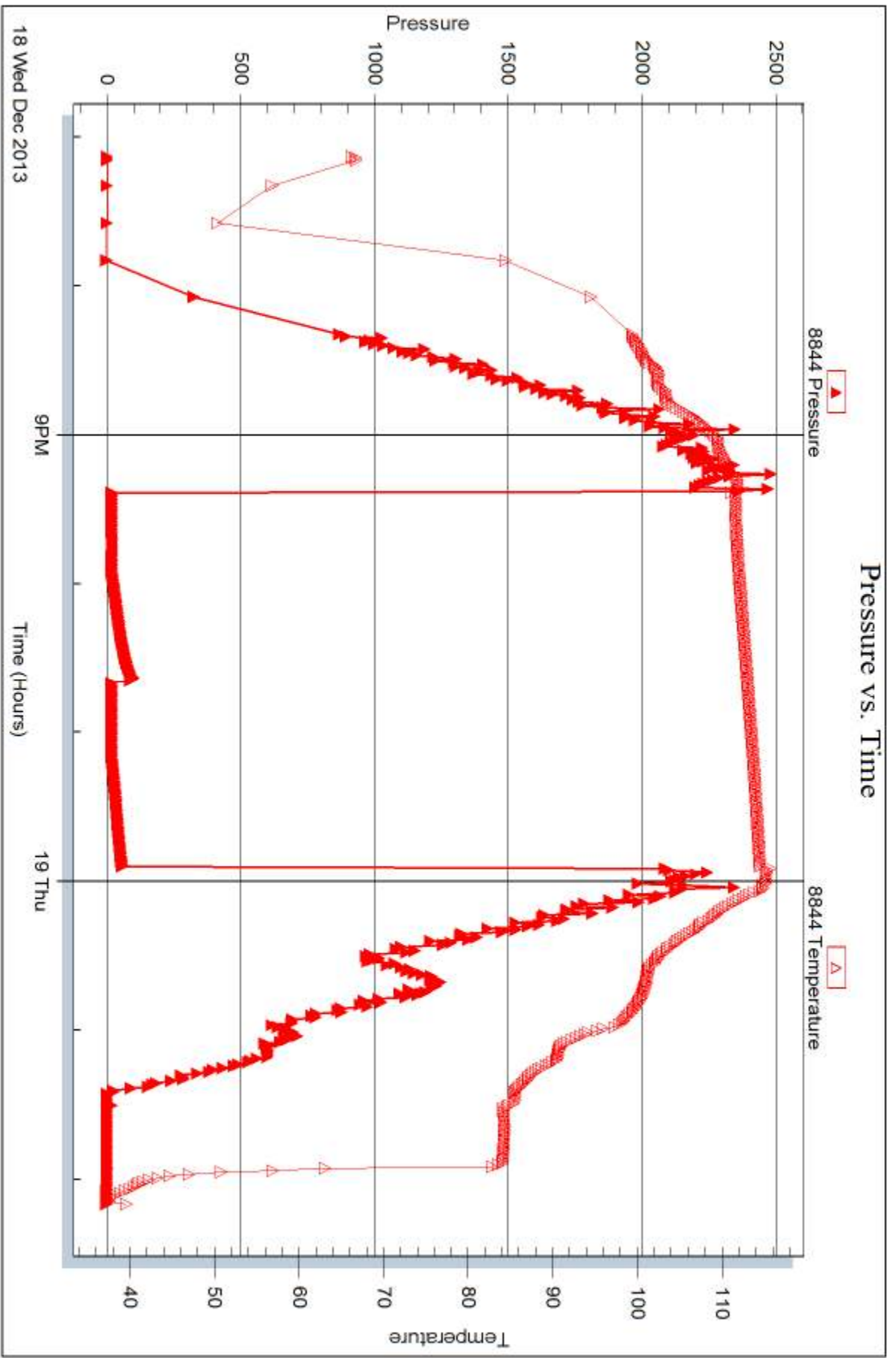


Serial #: 8844

Outside Landmark Resources Inc

Janzen #1-1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 54674

Printed: 2013.12.24 @ 14:10:26



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc**

1616 S Voss. Rd Ste 600
Houston, TX 77057

ATTN: Wes Hansen

Janzen #1-1

1-17s-34w Scott, KS

Start Date: 2013.12.19 @ 15:20:45

End Date: 2013.12.19 @ 23:22:00

Job Ticket #: 54675 DST #: 2

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

Printed: 2013.12.24 @ 14:09:55



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources Inc
 1616 S Voss. Rd Ste 600
 Houston, TX 77057
 ATTN: Wes Hansen

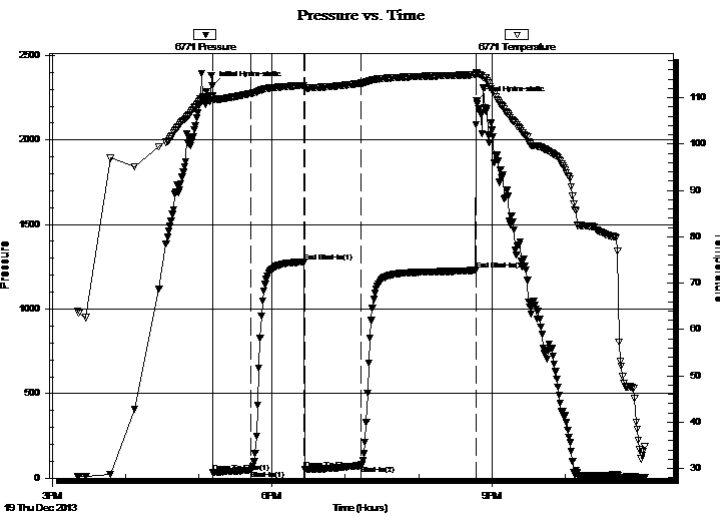
1-17s-34w Scott, KS
Janzen #1-1
 Job Ticket: 54675 **DST#: 2**
 Test Start: 2013.12.19 @ 15:20:45

GENERAL INFORMATION:

Formation: **Altamont**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:11:15
 Time Test Ended: 23:22:00
 Interval: **4450.00 ft (KB) To 4530.00 ft (KB) (TVD)**
 Total Depth: 4530.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 3110.00 ft (KB)
 3099.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6771 Inside
 Press@RunDepth: 74.61 psig @ 4451.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.19 End Date: 2013.12.19 Last Calib.: 2013.12.19
 Start Time: 15:20:45 End Time: 23:06:00 Time On Btm: 2013.12.19 @ 17:11:00
 Time Off Btm: 2013.12.19 @ 20:47:45

TEST COMMENT: 1/8" blow blew throughout open
 No return
 Surface blow in 7 min. built to 3"
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2322.36	110.31	Initial Hydro-static
1	35.43	109.56	Open To Flow (1)
32	47.37	110.89	Shut-In(1)
75	1279.60	112.64	End Shut-In(1)
76	52.00	112.18	Open To Flow (2)
122	74.61	113.11	Shut-In(2)
216	1229.98	114.94	End Shut-In(2)
217	2230.44	115.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	c o 100%o	0.17
30.00	m c o 25% m 75%o	0.15
60.00	o c m 35% o 65% m	0.30

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc

1-17s-34w Scott, KS

1616 S Voss. Rd Ste 600
Houston, TX 77057

Janzen #1-1

Job Ticket: 54675

DST#: 2

ATTN: Wes Hansen

Test Start: 2013.12.19 @ 15:20:45

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:11:15

Time Test Ended: 23:22:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: **4450.00 ft (KB) To 4530.00 ft (KB) (TVD)**

Reference Elevations: 3110.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

3099.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8844 Outside

Press@RunDepth: psig @ 4451.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.19 End Date: 2013.12.19

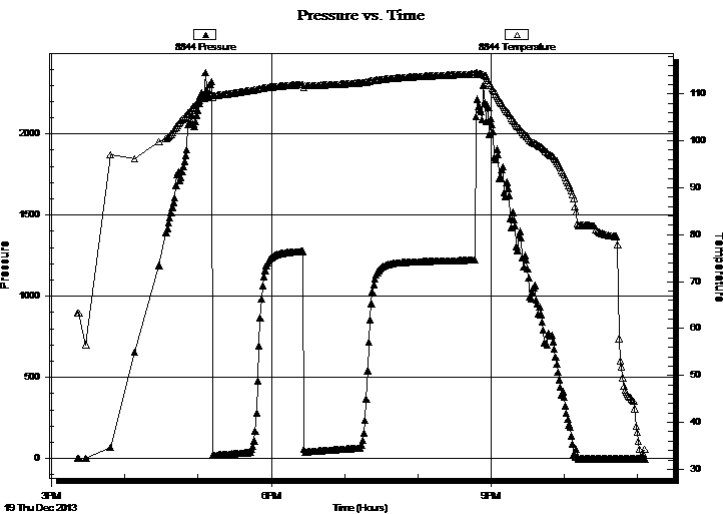
Last Calib.: 2013.12.19

Start Time: 15:21:14 End Time: 23:06:29

Time On Btm:

Time Off Btm:

TEST COMMENT: 1/8" blow blew throughout open
No return
Surface blow in 7 min. built to 3"
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
35.00	c o 100%o	0.17
30.00	m c o 25% m 75% o	0.15
60.00	o c m 35% o 65% m	0.30

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc

1-17s-34w Scott, KS

1616 S Voss. Rd Ste 600
Houston, TX 77057

Janzen #1-1

Job Ticket: 54675

DST#: 2

ATTN: Wes Hansen

Test Start: 2013.12.19 @ 15:20:45

Tool Information

Drill Pipe:	Length: 4202.00 ft	Diameter: 3.80 inches	Volume: 58.94 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 60.11 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4450.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	108.00 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			4423.00	
Shut In Tool	5.00			4428.00	
Hydraulic tool	5.00			4433.00	
Jars	5.00			4438.00	
Safety Joint	3.00			4441.00	
Packer	5.00			4446.00	28.00 Bottom Of Top Packer
Packer	4.00			4450.00	
Stubb	1.00			4451.00	
Recorder	0.00	6771	Inside	4451.00	
Recorder	0.00	8844	Outside	4451.00	
Perforations	10.00			4461.00	
Change Over Sub	1.00			4462.00	
Drill Pipe	62.00			4524.00	
Change Over Sub	1.00			4525.00	
Bullnose	5.00			4530.00	80.00 Bottom Packers & Anchor

Total Tool Length: 108.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc

1-17s-34w Scott, KS

1616 S Voss. Rd Ste 600
Houston, TX 77057

Janzen #1-1

Job Ticket: 54675

DST#: 2

ATTN: Wes Hansen

Test Start: 2013.12.19 @ 15:20:45

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.56 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
35.00	c o 100%o	0.172
30.00	m c o 25% m 75%o	0.148
60.00	o c m 35%o 65% m	0.295

Total Length: 125.00 ft Total Volume: 0.615 bbl

Num Fluid Samples: 0

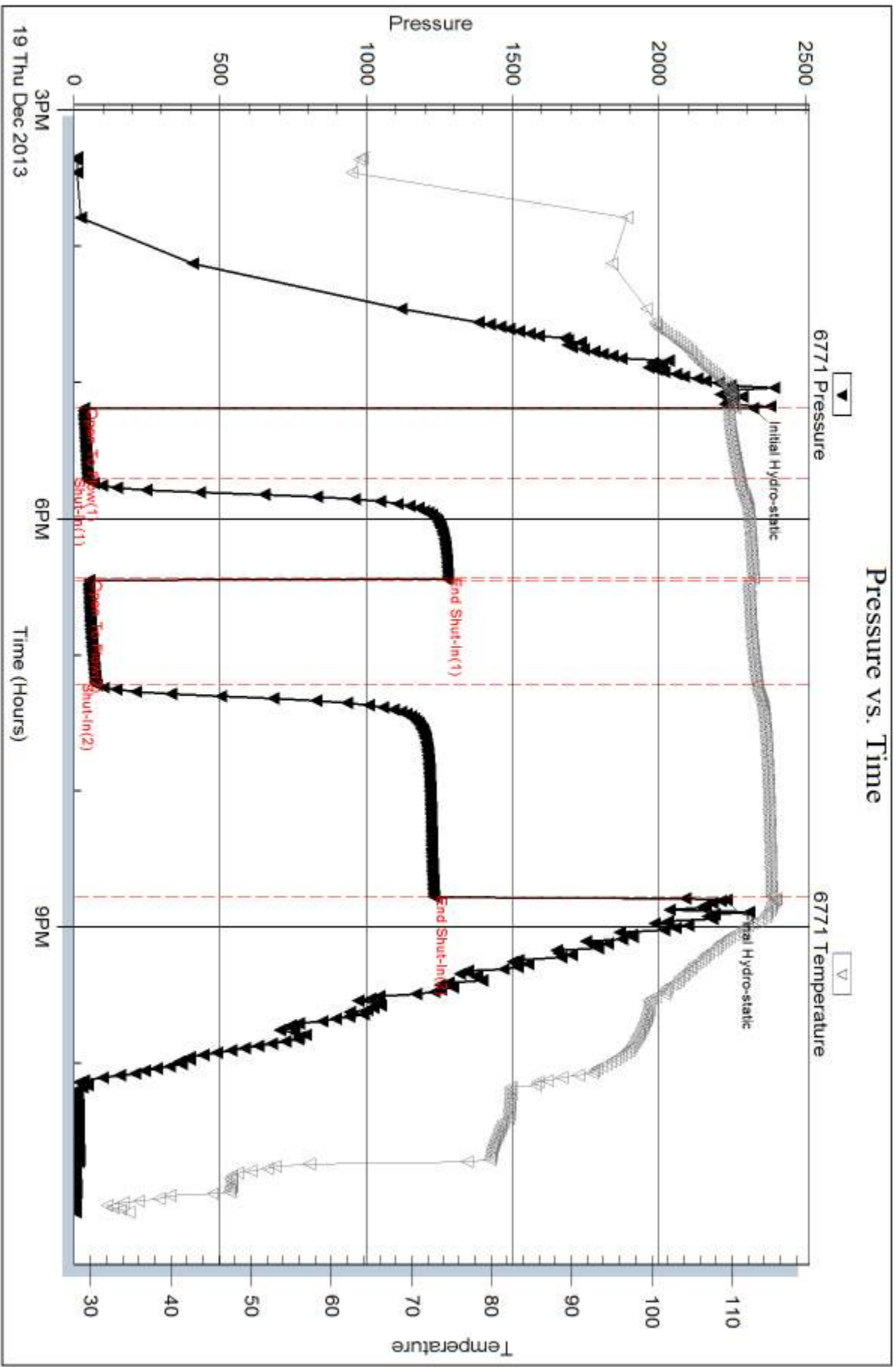
Num Gas Bombs: 0

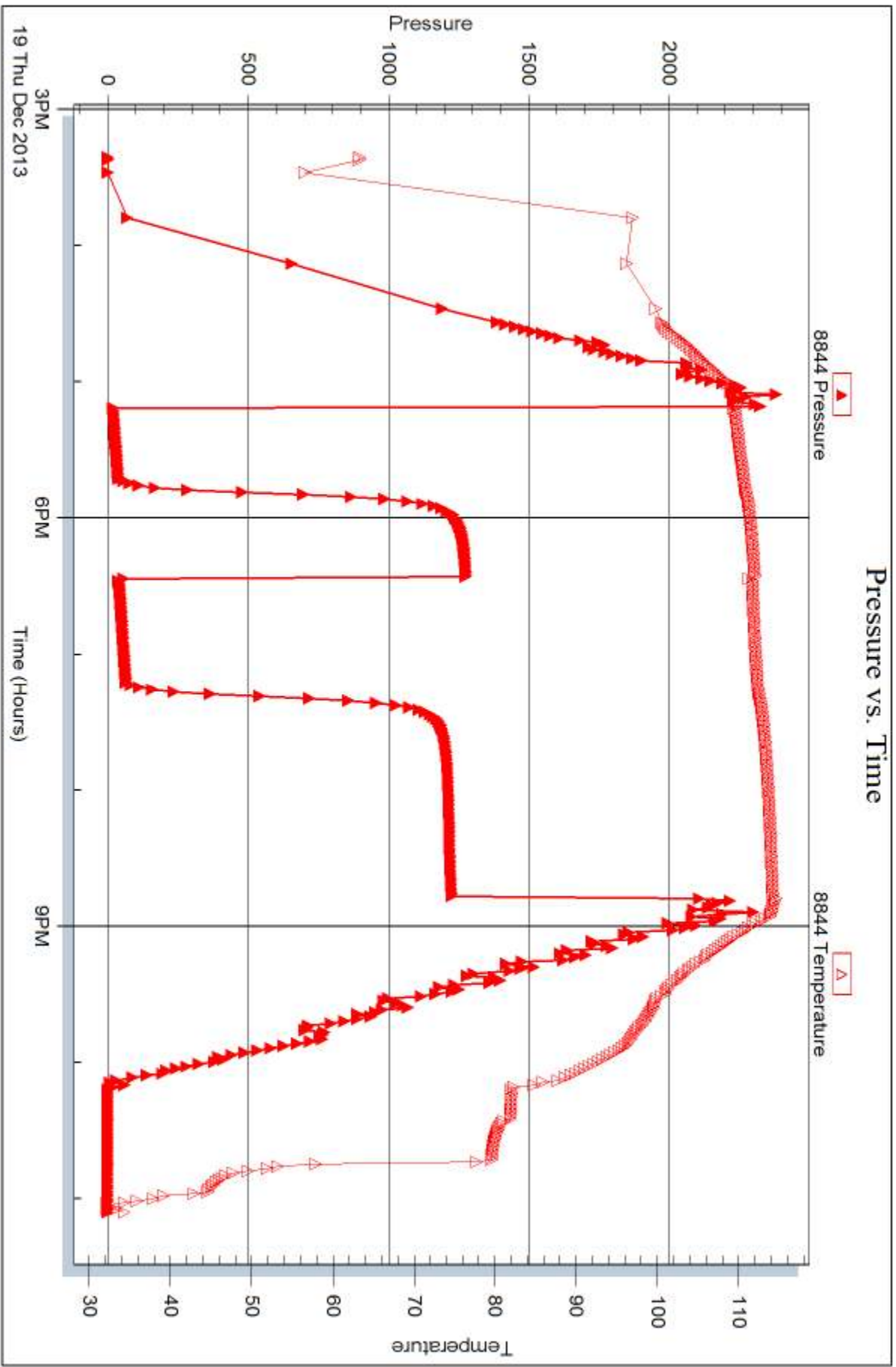
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: gravity 26 @ 20*f= 30







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc**

1616 S Voss. Rd Ste 600
Houston, TX 77057

ATTN: Wes Hansen

Janzen #1-1

1-17s-34w Scott, KS

Start Date: 2013.12.20 @ 14:00:15

End Date: 2013.12.20 @ 22:20:15

Job Ticket #: 56601 DST #: 3

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

Printed: 2013.12.24 @ 14:09:25



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources Inc

1-17s-34w Scott, KS

1616 S Voss. Rd Ste 600
Houston, TX 77057

Janzen #1-1

Job Ticket: 56601

DST#: 3

ATTN: Wes Hansen

Test Start: 2013.12.20 @ 14:00:15

GENERAL INFORMATION:

Formation: **Pawnee-Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:05:45

Time Test Ended: 22:20:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4516.00 ft (KB) To 4610.00 ft (KB) (TVD)

Reference Elevations: 3110.00 ft (KB)

Total Depth: 4610.00 ft (KB) (TVD)

3099.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6771 Inside

Press@RunDepth: 85.92 psig @ 4517.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.20 End Date: 2013.12.20

Last Calib.: 2013.12.20

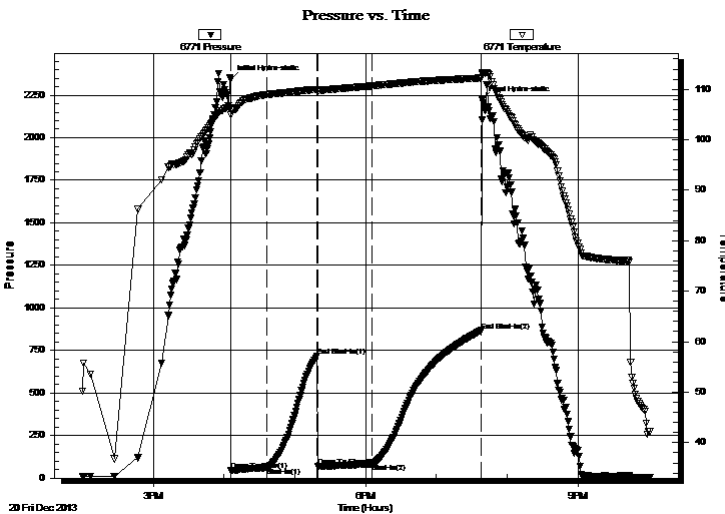
Start Time: 14:00:15 End Time: 22:01:15

Time On Btm: 2013.12.20 @ 16:05:30

Time Off Btm: 2013.12.20 @ 19:39:00

TEST COMMENT: B.O.B. in 24 min.
No return
B.O.B. in 24 min.
No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2340.71	106.33	Initial Hydro-static
1	43.72	104.84	Open To Flow (1)
31	62.81	108.91	Shut-In(1)
74	717.45	109.96	End Shut-In(1)
74	68.13	109.80	Open To Flow (2)
120	85.92	110.65	Shut-In(2)
213	866.84	112.22	End Shut-In(2)
214	2220.76	113.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	g m w/oil spots 5g 95m	0.32
60.00	g o c m 10g 5o 85m	0.30
0.00	415' gas in pipe	0.00

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Landmark Resources Inc

1-17s-34w Scott, KS

1616 S Voss. Rd Ste 600
Houston, TX 77057

Janzen #1-1

Job Ticket: 56601

DST#: 3

ATTN: Wes Hansen

Test Start: 2013.12.20 @ 14:00:15

GENERAL INFORMATION:

Formation: **Pawnee-Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:05:45

Time Test Ended: 22:20:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4516.00 ft (KB) To 4610.00 ft (KB) (TVD)

Reference Elevations: 3110.00 ft (KB)

Total Depth: 4610.00 ft (KB) (TVD)

3099.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8844 Outside

Press@RunDepth: psig @ 4517.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.20 End Date: 2013.12.20

Last Calib.: 2013.12.20

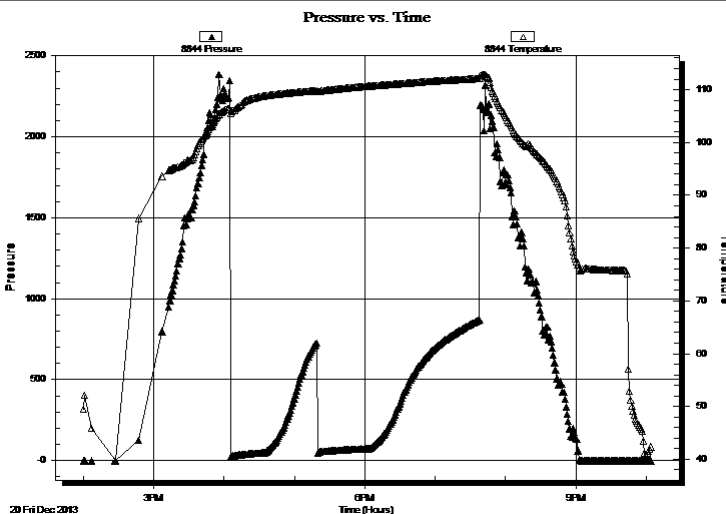
Start Time: 14:00:15 End Time: 22:03:45

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. in 24 min.
No return
B.O.B. in 24 min.
No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
65.00	g m w/oil spots 5g 95m	0.32
60.00	g o c m 10g 5o 85m	0.30
0.00	415' gas in pipe	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc

1-17s-34w Scott, KS

1616 S Voss. Rd Ste 600
Houston, TX 77057

Janzen #1-1

Job Ticket: 56601

DST#: 3

ATTN: Wes Hansen

Test Start: 2013.12.20 @ 14:00:15

Tool Information

Drill Pipe:	Length: 4264.00 ft	Diameter: 3.80 inches	Volume: 59.81 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 60.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4516.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	94.00 ft			
Tool Length:	122.00 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			4489.00	
Shut In Tool	5.00			4494.00	
Hydraulic tool	5.00			4499.00	
Jars	5.00			4504.00	
Safety Joint	3.00			4507.00	
Packer	5.00			4512.00	28.00 Bottom Of Top Packer
Packer	4.00			4516.00	
Stubb	1.00			4517.00	
Recorder	0.00	6771	Inside	4517.00	
Recorder	0.00	8844	Outside	4517.00	
Perforations	23.00			4540.00	
Change Over Sub	1.00			4541.00	
Drill Pipe	63.00			4604.00	
Change Over Sub	1.00			4605.00	
Bullnose	5.00			4610.00	94.00 Bottom Packers & Anchor

Total Tool Length: 122.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc

1-17s-34w Scott, KS

1616 S Voss. Rd Ste 600
Houston, TX 77057

Janzen #1-1

Job Ticket: 56601

DST#: 3

ATTN: Wes Hansen

Test Start: 2013.12.20 @ 14:00:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.56 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
65.00	g m w /oil spots 5g 95m	0.320
60.00	g o c m 10g 5o 85m	0.295
0.00	415' gas in pipe	0.000

Total Length: 125.00 ft

Total Volume: 0.615 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6771

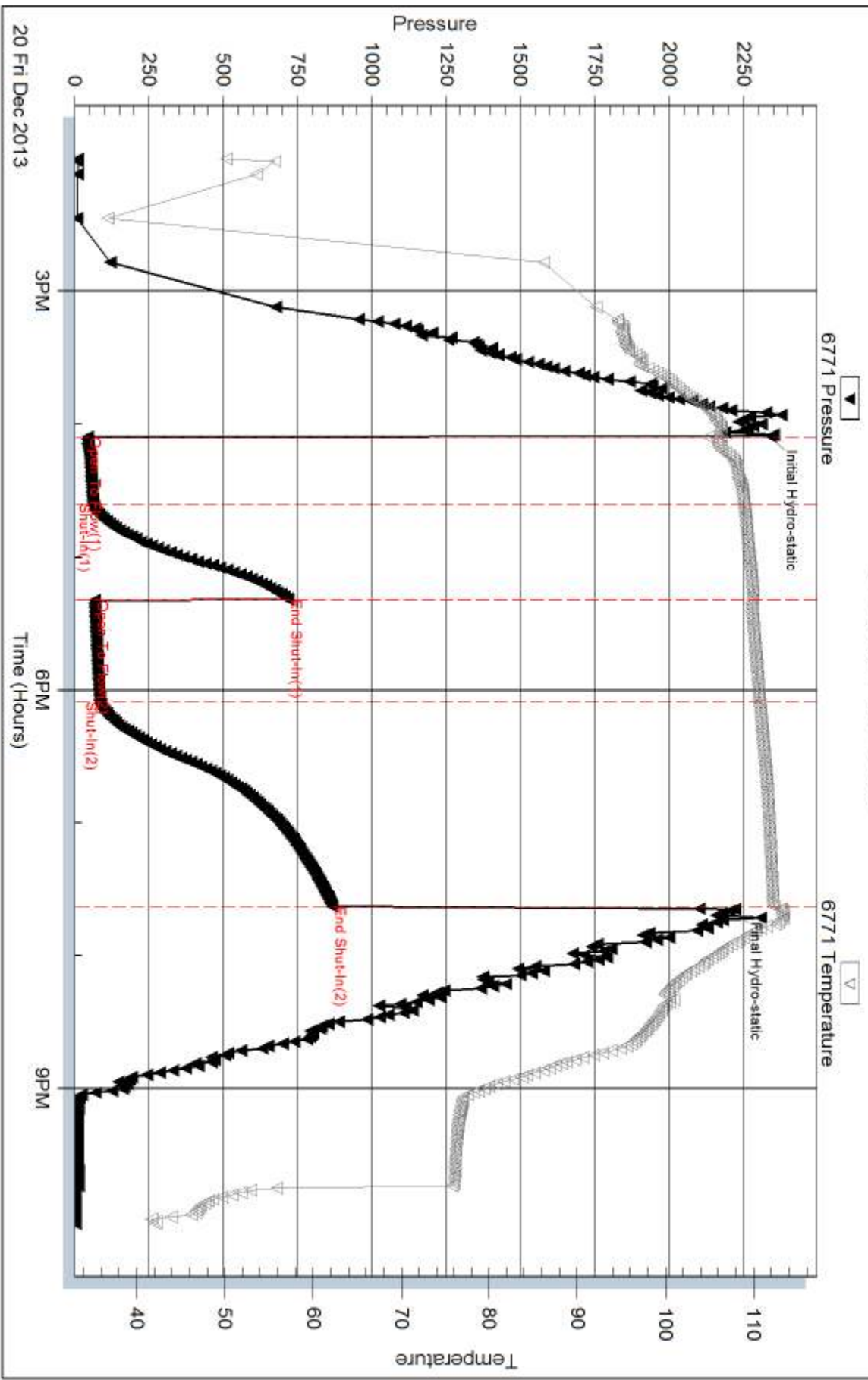
Inside

Landmark Resources Inc

Janzen #1-1

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 56601

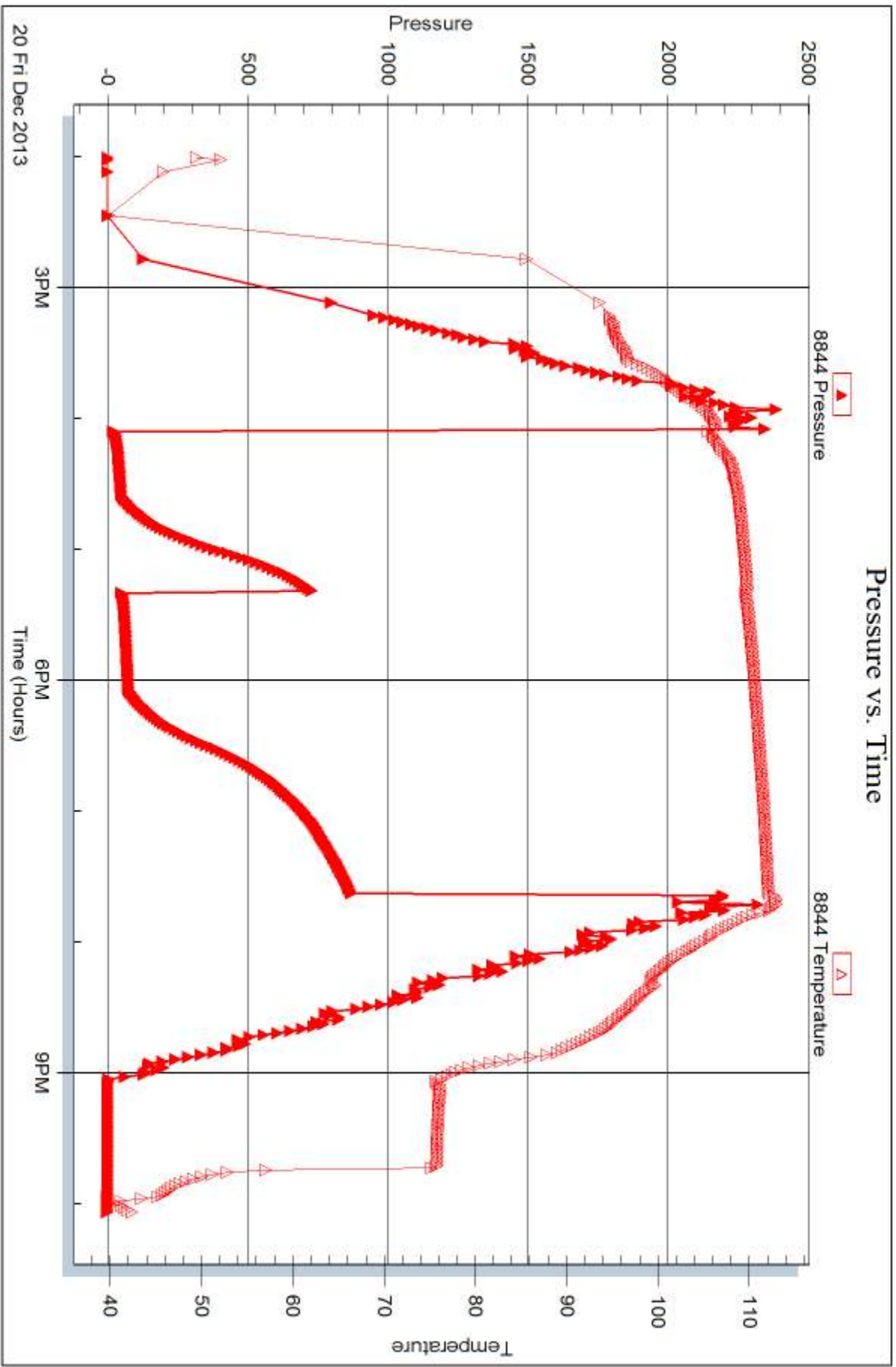
Printed: 2013.12.24 @ 14:09:27

Serial #: 8844

Outside Landmark Resources Inc

Janzen #1-1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 56601

Printed: 2013.12.24 @ 14:09:27



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc**

1616 S Voss. Rd Ste 600
Houston, TX 77057

ATTN: Wes Hansen

Janzen #1-1

1-17s-34w Scott, KS

Start Date: 2013.12.21 @ 14:00:15

End Date: 2013.12.21 @ 21:10:30

Job Ticket #: 56602 DST #: 4

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

Printed: 2013.12.24 @ 13:55:14



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources Inc

1-17s-34w Scott, KS

1616 S Voss. Rd Ste 600
Houston, TX 77057

Janzen #1-1

Job Ticket: 56602

DST#: 4

ATTN: Wes Hansen

Test Start: 2013.12.21 @ 14:00:15

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:06:30

Time Test Ended: 21:10:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4622.00 ft (KB) To 4720.00 ft (KB) (TVD)

Reference Elevations: 3110.00 ft (KB)

Total Depth: 4720.00 ft (KB) (TVD)

3099.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6771 Inside

Press@RunDepth: 45.95 psig @ 4623.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.21

End Date:

2013.12.21

Last Calib.: 2013.12.21

Start Time: 14:00:15

End Time:

20:45:30

Time On Btm: 2013.12.21 @ 16:06:00

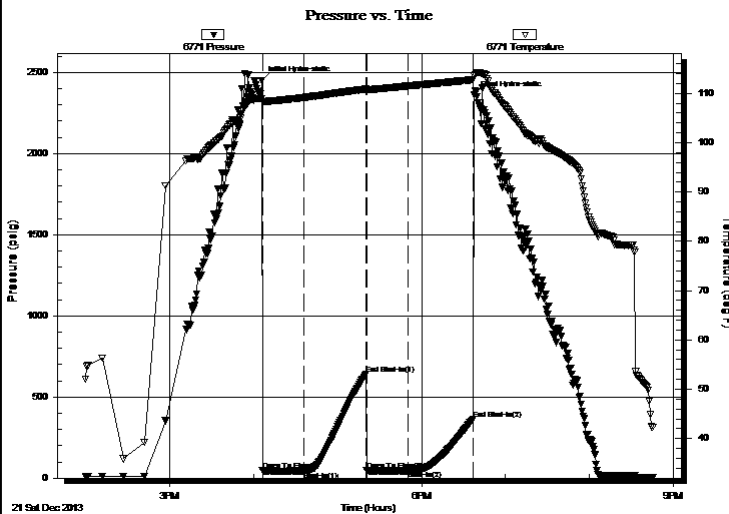
Time Off Btm: 2013.12.21 @ 18:37:30

TEST COMMENT: 1/4" blow died in 15 min.

No return

No blow

No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2448.31	108.99	Initial Hydro-static
1	48.24	108.37	Open To Flow (1)
31	44.63	109.18	Shut-In(1)
75	641.74	110.88	End Shut-In(1)
75	48.55	110.70	Open To Flow (2)
105	45.95	111.50	Shut-In(2)
151	361.55	112.77	End Shut-In(2)
152	2359.71	113.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100%m	0.01

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources Inc
 1616 S Voss. Rd Ste 600
 Houston, TX 77057
 ATTN: Wes Hansen

1-17s-34w Scott, KS

Janzen #1-1

Job Ticket: 56602

DST#: 4

Test Start: 2013.12.21 @ 14:00:15

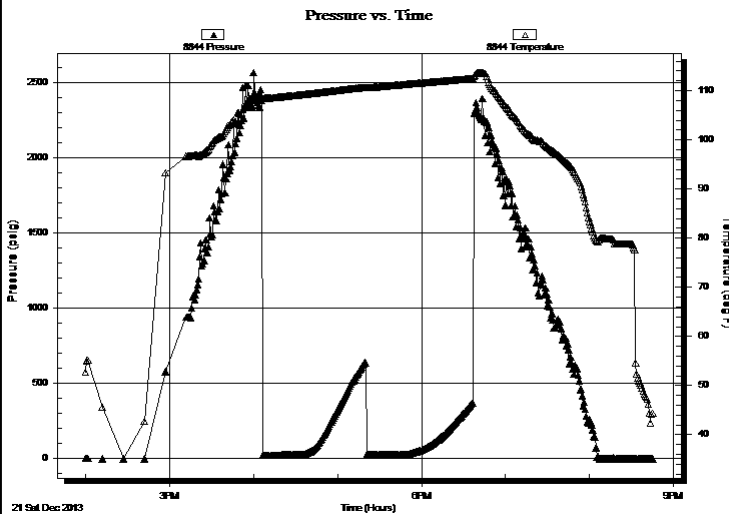
GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:06:30
 Time Test Ended: 21:10:30
 Interval: **4622.00 ft (KB) To 4720.00 ft (KB) (TVD)**
 Total Depth: 4720.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Shane McBride
 Unit No: 55
 Reference Elevations: 3110.00 ft (KB)
 3099.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8844 Outside

Press@RunDepth: psig @ 4623.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.12.21 End Date: 2013.12.21 Last Calib.: 2013.12.21
 Start Time: 14:00:15 End Time: 20:45:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 1/4" blow died in 15 min.
 No return
 No blow
 No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100%m	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc

1-17s-34w Scott, KS

1616 S Voss. Rd Ste 600
Houston, TX 77057

Janzen #1-1

Job Ticket: 56602

DST#: 4

ATTN: Wes Hansen

Test Start: 2013.12.21 @ 14:00:15

Tool Information

Drill Pipe:	Length: 4387.00 ft	Diameter: 3.80 inches	Volume: 61.54 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 98000.00 lb
			<u>Total Volume: 62.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4622.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	126.00 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			4595.00	
Shut In Tool	5.00			4600.00	
Hydraulic tool	5.00			4605.00	
Jars	5.00			4610.00	
Safety Joint	3.00			4613.00	
Packer	5.00			4618.00	28.00 Bottom Of Top Packer
Packer	4.00			4622.00	
Stubb	1.00			4623.00	
Recorder	0.00	6771	Inside	4623.00	
Recorder	0.00	8844	Outside	4623.00	
Perforations	28.00			4651.00	
Change Over Sub	1.00			4652.00	
Drill Pipe	62.00			4714.00	
Change Over Sub	1.00			4715.00	
Bullnose	5.00			4720.00	98.00 Bottom Packers & Anchor

Total Tool Length: 126.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc

1-17s-34w Scott, KS

1616 S Voss. Rd Ste 600
Houston, TX 77057

Janzen #1-1

Job Ticket: 56602

DST#: 4

ATTN: Wes Hansen

Test Start: 2013.12.21 @ 14:00:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100%m	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

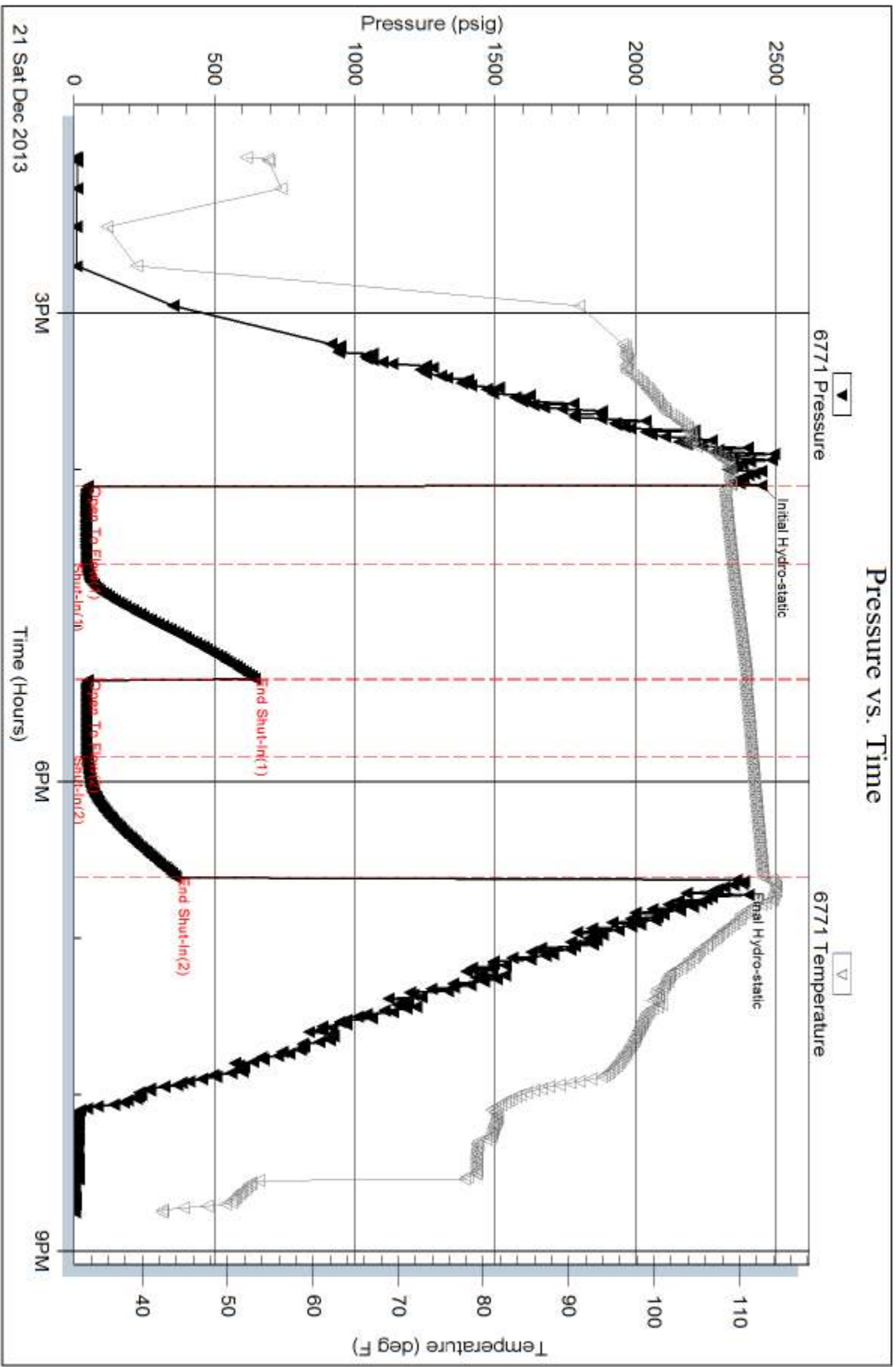
Num Gas Bombs: 0

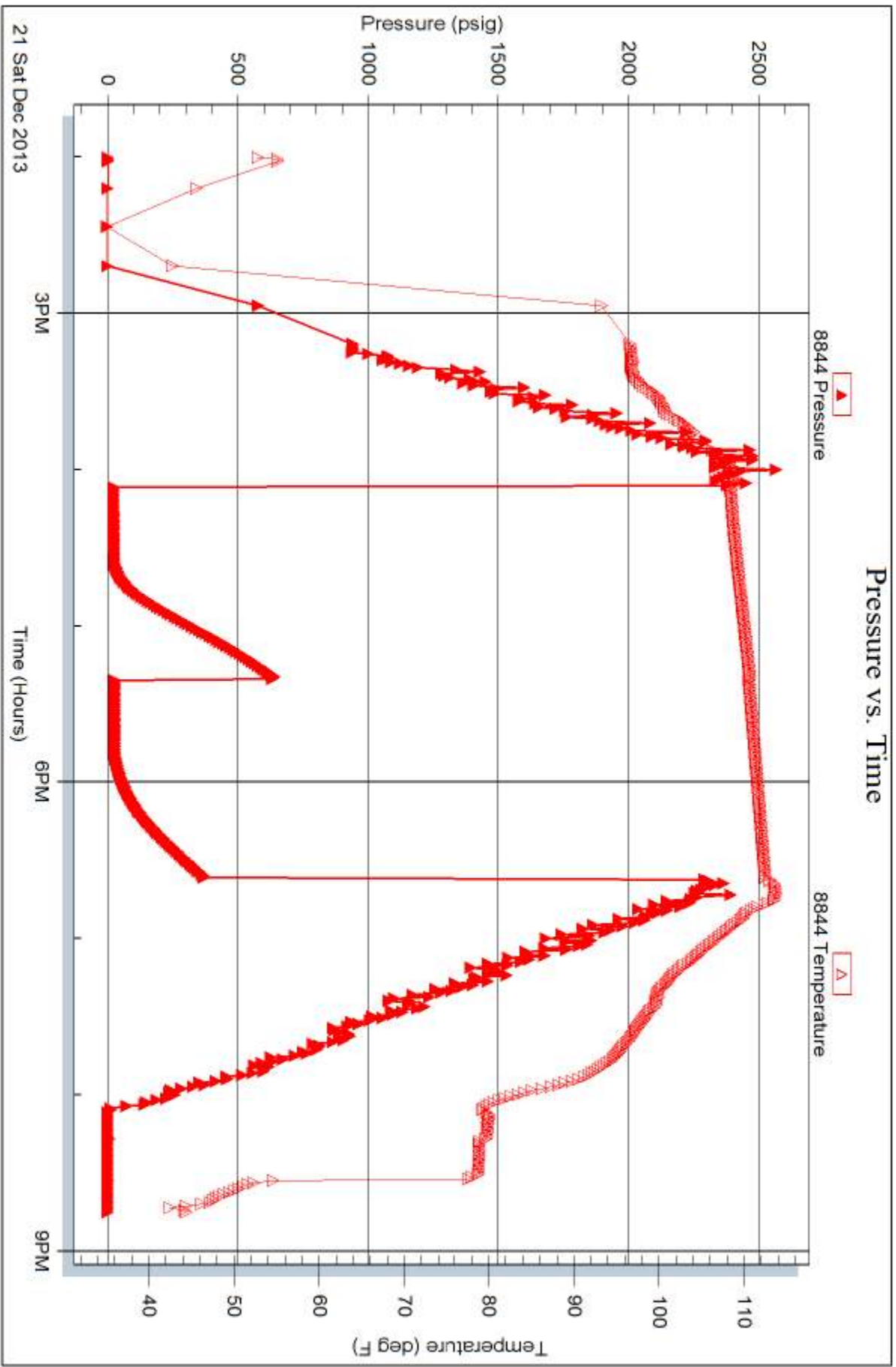
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **54674**

Well Name & No. Janzen #1-1 Test No. #1 Date 12/19/13
 Company Landmark Resources Inc Elevation 3110 KB 3099 GL
 Address 1666 Silvers Rd. Ste 600 Houston, Tx 77057
 Co. Rep / Geo. Wes Hansen Rig Murford #22
 Location: Sec. 1 Twp. 17E Rge. 34W Co. Scott State Ks

Interval Tested 4410 4459 Zone Tested Mamaton
 Anchor Length 49 Drill Pipe Run 4169 Mud Wt. 9.4
 Top Packer Depth 4405 Drill Collars Run 238' Vis 55
 Bottom Packer Depth 4410 Wt. Pipe Run WL 7.2
 Total Depth 4459 Chlorides 5400 ppm System LCM #4

Blow Description Surface blow died in 5 min.
No return
No blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2'</u>	<u>Mud</u>				<u>100%</u>
	<u>(Show of oil in Tool)</u>				

Rec Total 2' BHT 116° Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic <u>2351</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>18:30</u>
(B) First Initial Flow <u>27</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>19:07</u>
(C) First Final Flow <u>26</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>21:23</u>
(D) Initial Shut-In <u>100</u>	<input checked="" type="checkbox"/> Circ Sub <u>W/C</u>	T-Pulled <u>23:53</u>
(E) Second Initial Flow <u>34</u>	<input type="checkbox"/> Hourly Standby <u> </u>	T-Out <u>02:22</u>
(F) Second Final Flow <u>30</u>	<input checked="" type="checkbox"/> Mileage <u>34 RT</u> <u>52.70</u>	Comments <u> </u>
(G) Final Shut-In <u>57</u>	<input type="checkbox"/> Sampler <u> </u>	
(H) Final Hydrostatic <u>2246</u>	<input type="checkbox"/> Straddle <u> </u>	<input type="checkbox"/> Ruined Shale Packer <u> </u>

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer <u> </u>	<input checked="" type="checkbox"/> Ruined Packer <u>320</u>
Initial Shut-In <u>46</u>	<input type="checkbox"/> Extra Packer <u> </u>	<input type="checkbox"/> Extra Copies <u> </u>
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder <u> </u>	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby <u> </u>	Total <u>1947.70</u>
	<input type="checkbox"/> Accessibility <u> </u>	MP/DST Disc't <u> </u>
	Sub Total <u>1627.70</u>	

Approved By Wesley Hansen Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54675

Well Name & No. Janzen #1-1 Test No. #2 Date 12/19/13
 Company Landmark Resources Inc Elevation 3110 KB 3099 GL
 Address 1666 S Voss Rd Ste 600 Houston, TX 77057
 Co. Rep / Geo. Wes Hansen Rig Murkin #22
 Location: Sec. 1 Twp. 17E Rge. 34W Co. Scott State Ks

Interval Tested 4450 4530 Zone Tested Altamont
 Anchor Length 80 Drill Pipe Run 4202 Mud Wt. 9.3
 Top Packer Depth 4445 Drill Collars Run 238' Vis 660
 Bottom Packer Depth 4450 Wt. Pipe Run --- WL 9.6
 Total Depth 4530 Chlorides 6500 ppm System LCM #3

Blow Description 1/8" in blow blew throughout
No return
Surface blow on 7 min burst to 3' in.
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>.35</u>	<u>CO</u>		<u>100</u>		
<u>30</u>	<u>mco</u>		<u>75</u>		<u>25</u>
<u>60</u>	<u>ocm</u>		<u>35</u>		<u>65</u>

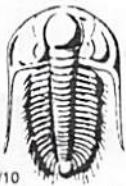
Rec Total 125' BHT 115° Gravity 30 API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 2322 Test 1250 T-On Location 14115
 (B) First Initial Flow 35 Jars 250 T-Started 15:20
 (C) First Final Flow 47 Safety Joint 75 T-Open 17:10
 (D) Initial Shut-In 1279 Circ Sub N/C T-Pulled 20:40
 (E) Second Initial Flow 52 Hourly Standby --- T-Out 23:22
 (F) Second Final Flow 74 Mileage 34RT 52.70
 (G) Final Shut-In 1229 Sampler ---
 (H) Final Hydrostatic 2230 Straddle ---

Shale Packer --- Ruined Shale Packer ---
 Extra Packer --- Ruined Packer ---
 Extra Recorder --- Extra Copies ---
 Day Standby --- Sub Total 0
 Accessibility --- Total 1947.70
 Sub Total 1947.70 MP/DST Disc't ---

Approved By Wes Hansen Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56601**

Well Name & No. Jensen #1-1 Test No. #3 Date 12/20/13
 Company Landmark Resources Inc. Elevation 3110 KB 3099 GL
 Address 1616 S Voss Rd Ste 600 Houston, Tx, 77057
 Co. Rep / Geo. Wes Hansen Rig Martin #22
 Location: Sec. 1 Twp. 17S Rge. 34W Co. Scott State Ks

Interval Tested 4516 4610 Zone Tested Pruner Cherokee
 Anchor Length 94 Drill Pipe Run 4260' Mud Wt. 9.2
 Top Packer Depth 4511 Drill Collars Run 238' Vis 62
 Bottom Packer Depth 4516 Wt. Pipe Run _____ WL 9.4
 Total Depth 4610 Chlorides 8000 ppm System LCM #2

Blow Description B.O.B. in 24 min
No return
B.O.B. in 24 min.
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>65</u>	<u>9' mud w/oil spots</u>	<u>5</u>	<u>5</u>	<u>95</u>	<u>95</u>
<u>60</u>	<u>90cm</u>	<u>10</u>	<u>5</u>	<u>85</u>	<u>85</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>413' Gas in pipe</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 125' BHT 113° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2340</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>13:20</u>
(B) First Initial Flow <u>43</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:00</u>
(C) First Final Flow <u>62</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>16:05</u>
(D) Initial Shut-In <u>717</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>19:35</u>
(E) Second Initial Flow <u>68</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>22:20</u>
(F) Second Final Flow <u>85</u>	<input checked="" type="checkbox"/> Mileage <u>34 RT</u> <u>52.70</u>	Comments _____
(G) Final Shut-In <u>866</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2220</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1947.70</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1947.70</u>	

Approved By Wesley Hansen Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56602

4/10

Well Name & No. Janzen #1-1 Test No. #4 Date 12/21/13
 Company Landmark Resources Inc Elevation 3110 KB 3099 GL
 Address 14145 Voss Rd. Ste 600 Houston, TX 77057
 Co. Rep / Geo. Wes Hansen Rig Wesley #22
 Location: Sec. 1 Twp. 17S Rge. 34W Co. Scott State Ks

Interval Tested 4622 4720 Zone Tested Johnson
 Anchor Length 98 Drill Pipe Run 4387' Mud Wt. 9.2
 Top Packer Depth 4617 Drill Collars Run 238' Vis 52
 Bottom Packer Depth 4622 Wt. Pipe Run WL 8.8
 Total Depth 4720 Chlorides 8200 ppm System LCM #2

Blow Description 1/4" blow died in 15 min.
No return
No blow
No return

Rec	Feet of	%gas	%oil	%water	%mud
3'	mud			100%	

Rec Total 3' BHT 113° Gravity API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 2448 Test 1250 T-On Location 13:40
 (B) First Initial Flow 48 Jars 250 T-Started 14:00
 (C) First Final Flow 41 Safety Joint 75 T-Open 16:05
 (D) Initial Shut-In 6:11 Circ Sub n/o T-Pulled 18:35
 (E) Second Initial Flow 48 Hourly Standby T-Out 21:20
 (F) Second Final Flow 45 Mileage 34RT 52.70
 (G) Final Shut-In 3:01 Sampler
 (H) Final Hydrostatic 2359 Straddle Ruined Shale Packer

Shale Packer Ruined Packer 320
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1947.70
 Accessibility MP/DST Disc't
 Sub Total 1947.70

Approved By Wesley Hansen Our Representative [Signature]

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