



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd Ste 600
Houston TX 77057

ATTN: Terry McLeod

Krebs #1-5

5-17s-33w Scott,KS

Start Date: 2013.11.26 @ 15:32:00

End Date: 2013.11.26 @ 22:59:39

Job Ticket #: 53286 DST #: 1

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

Printed: 2013.12.03 @ 13:50:28



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources Inc.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 53286

DST#: 1

ATTN: Terry McLeod

Test Start: 2013.11.26 @ 15:32:00

GENERAL INFORMATION:

Formation: **Marmanton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:39:55

Time Test Ended: 22:59:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Will MacLean

Unit No: 58

Interval: 4441.00 ft (KB) To 4457.00 ft (KB) (TVD)

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4457.00 ft (KB) (TVD)

3081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674 Inside

Press@RunDepth: 16.45 psig @ 4442.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.26

End Date:

2013.11.26

Last Calib.: 2013.11.26

Start Time: 15:32:00

End Time:

22:59:39

Time On Btm: 2013.11.26 @ 17:39:40

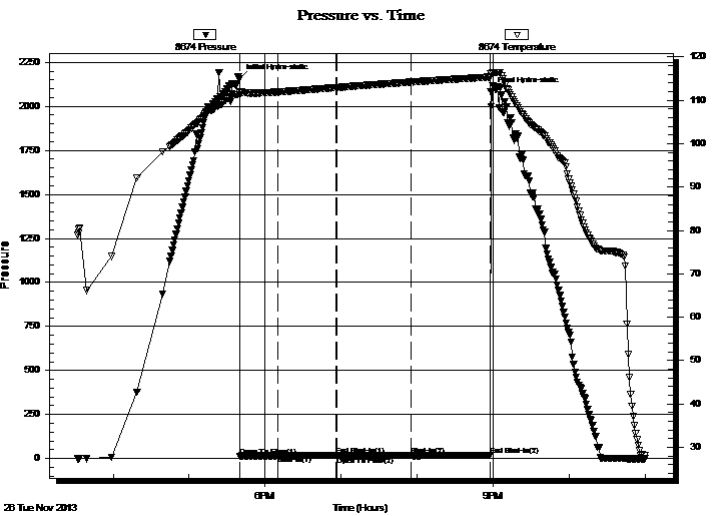
Time Off Btm: 2013.11.26 @ 20:58:09

TEST COMMENT: IF- 1/4" Blow Died Back to Weak Surface Blow

IS- No Blow

FF- No Blow

FS- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.05	112.01	Initial Hydro-static
1	13.39	111.19	Open To Flow (1)
31	15.94	111.92	Shut-In(1)
77	19.48	112.94	End Shut-In(1)
77	15.10	112.95	Open To Flow (2)
136	16.45	114.22	Shut-In(2)
199	19.04	115.39	End Shut-In(2)
199	2083.98	116.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	100%m with Oil Spots	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 53286

DST#: 1

ATTN: Terry McLeod

Test Start: 2013.11.26 @ 15:32:00

Tool Information

Drill Pipe:	Length: 4152.00 ft	Diameter: 3.80 inches	Volume: 58.24 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: 26000.00 lb
Drill Collar:	Length: 277.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 18000.00 lb
			<u>Total Volume: 59.60 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4441.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	38.00 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			4420.00	
Shut In Tool	5.00			4425.00	
Hydraulic tool	5.00			4430.00	
Safety Joint	2.00			4432.00	
Packer	5.00			4437.00	22.00 Bottom Of Top Packer
Packer	4.00			4441.00	
Stubb	1.00			4442.00	
Recorder	0.00	8355	Outside	4442.00	
Recorder	0.00	8674	Inside	4442.00	
Perforations	10.00			4452.00	
Bullnose	5.00			4457.00	16.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 53286

DST#: 1

ATTN: Terry McLeod

Test Start: 2013.11.26 @ 15:32:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	100% m with Oil Spots	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:

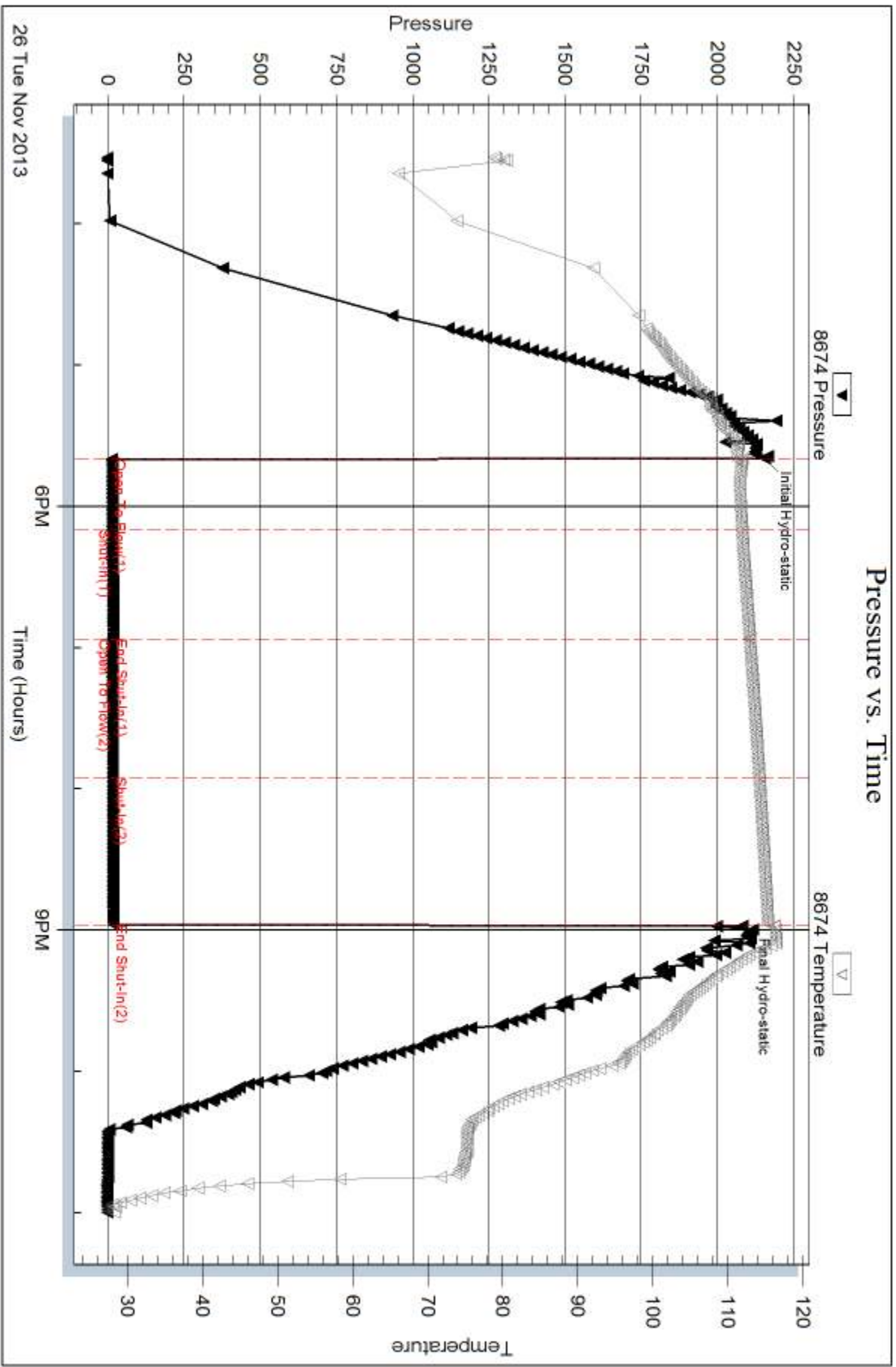
Serial #: 8674

Inside

Landmark Resources Inc.

Kebs #1-5

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 53286

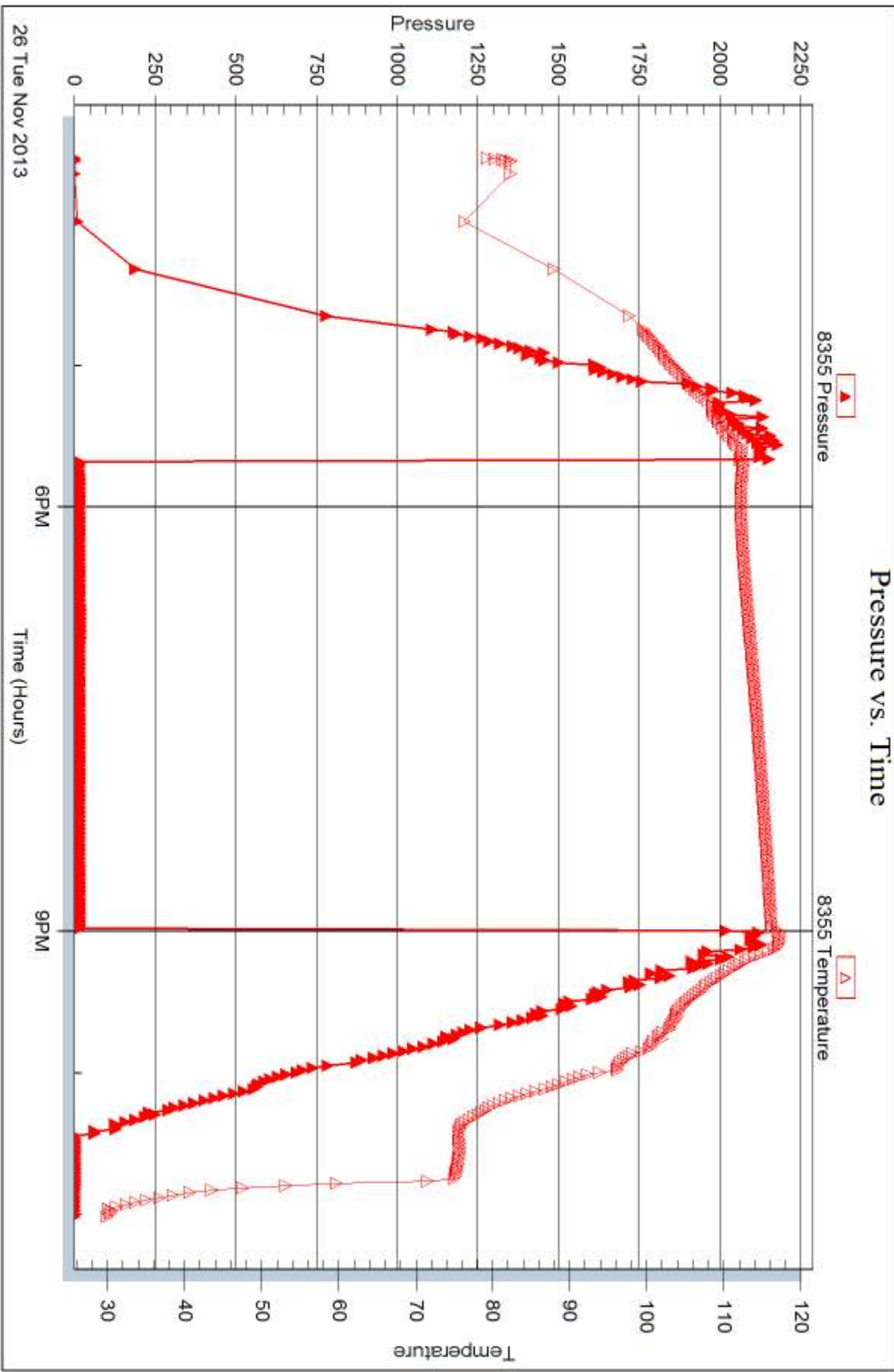
Printed: 2013.12.03 @ 13:50:31

Serial #: 8355

Outside Landmark Resources Inc.

Kebs #1-5

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 53286

Printed: 2013.12.03 @ 13:50:31



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd Ste 600
Houston TX 77057

ATTN: Terry McLeod

Krebs #1-5

5-17s-33w Scott,KS

Start Date: 2013.11.27 @ 07:26:00

End Date: 2013.11.27 @ 17:09:25

Job Ticket #: 53287 DST #: 2

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

Printed: 2013.12.03 @ 13:49:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 53287

DST#: 2

ATTN: Terry McLeod

Test Start: 2013.11.27 @ 07:26:00

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:30:25

Time Test Ended: 17:09:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4454.00 ft (KB) To 4483.00 ft (KB) (TVD)

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4483.00 ft (KB) (TVD)

3081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674

Inside

Press@RunDepth: 789.01 psig @ 4455.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.27

End Date:

2013.11.27

Last Calib.:

2013.11.27

Start Time: 07:26:00

End Time:

17:09:25

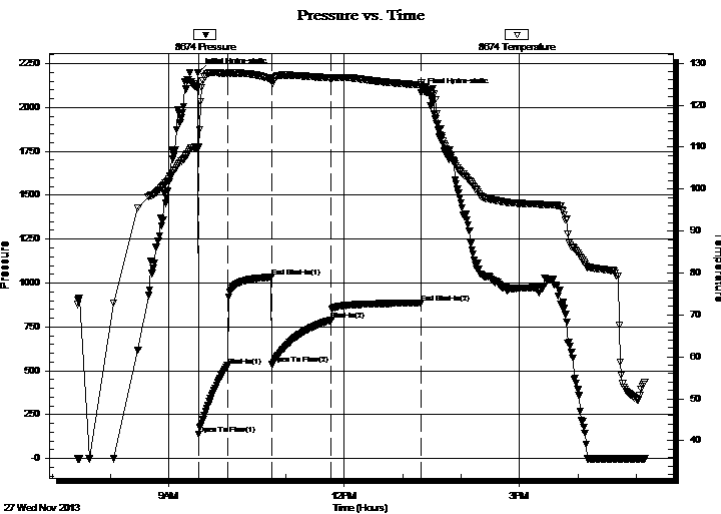
Time On Btm:

2013.11.27 @ 09:29:55

Time Off Btm:

2013.11.27 @ 13:19:09

TEST COMMENT: IF- Surface Blow Built to BOB in 1 1/2 min
IS- Weak Surface Blow Built to 4"
FF- Surface Blow Built to BOB in 3 1/4"
FS- Weak Surface Blow Built to 2 3/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.43	110.08	Initial Hydro-static
1	139.73	109.87	Open To Flow (1)
30	528.50	127.55	Shut-In(1)
76	1033.86	126.23	End Shut-In(1)
76	535.53	125.93	Open To Flow (2)
137	789.01	126.48	Shut-In(2)
229	887.03	124.80	End Shut-In(2)
230	2083.74	125.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MGCO 22%g 28%g 50%oil	0.30
62.00	GOCM 15%g 40%oil 45%m	0.30
2170.00	GO 32%g 68%oil	29.05
87.00	GO 20%g 80%oil	1.22
0.00	1215' of GIP	0.00

* 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.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 53287

DST#: 2

ATTN: Terry McLeod

Test Start: 2013.11.27 @ 07:26:00

Tool Information

Drill Pipe:	Length: 4179.00 ft	Diameter: 3.80 inches	Volume: 58.62 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: 26000.00 lb
Drill Collar:	Length: 277.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 59.98 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4454.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	51.00 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			4433.00	
Shut In Tool	5.00			4438.00	
Hydraulic tool	5.00			4443.00	
Safety Joint	2.00			4445.00	
Packer	5.00			4450.00	22.00 Bottom Of Top Packer
Packer	4.00			4454.00	
Stubb	1.00			4455.00	
Recorder	0.00	8355	Outside	4455.00	
Recorder	0.00	8674	Inside	4455.00	
Perforations	23.00			4478.00	
Bullnose	5.00			4483.00	29.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 53287

DST#: 2

ATTN: Terry McLeod

Test Start: 2013.11.27 @ 07:26:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MGCO 22%m 28%g 50%oil	0.305
62.00	GOCM 15%g 40%oil 45%m	0.305
2170.00	GO 32%g 68%oil	29.046
87.00	GO 20%g 80%oil	1.220
0.00	1215' of GIP	0.000

Total Length: 2381.00 ft Total Volume: 30.876 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

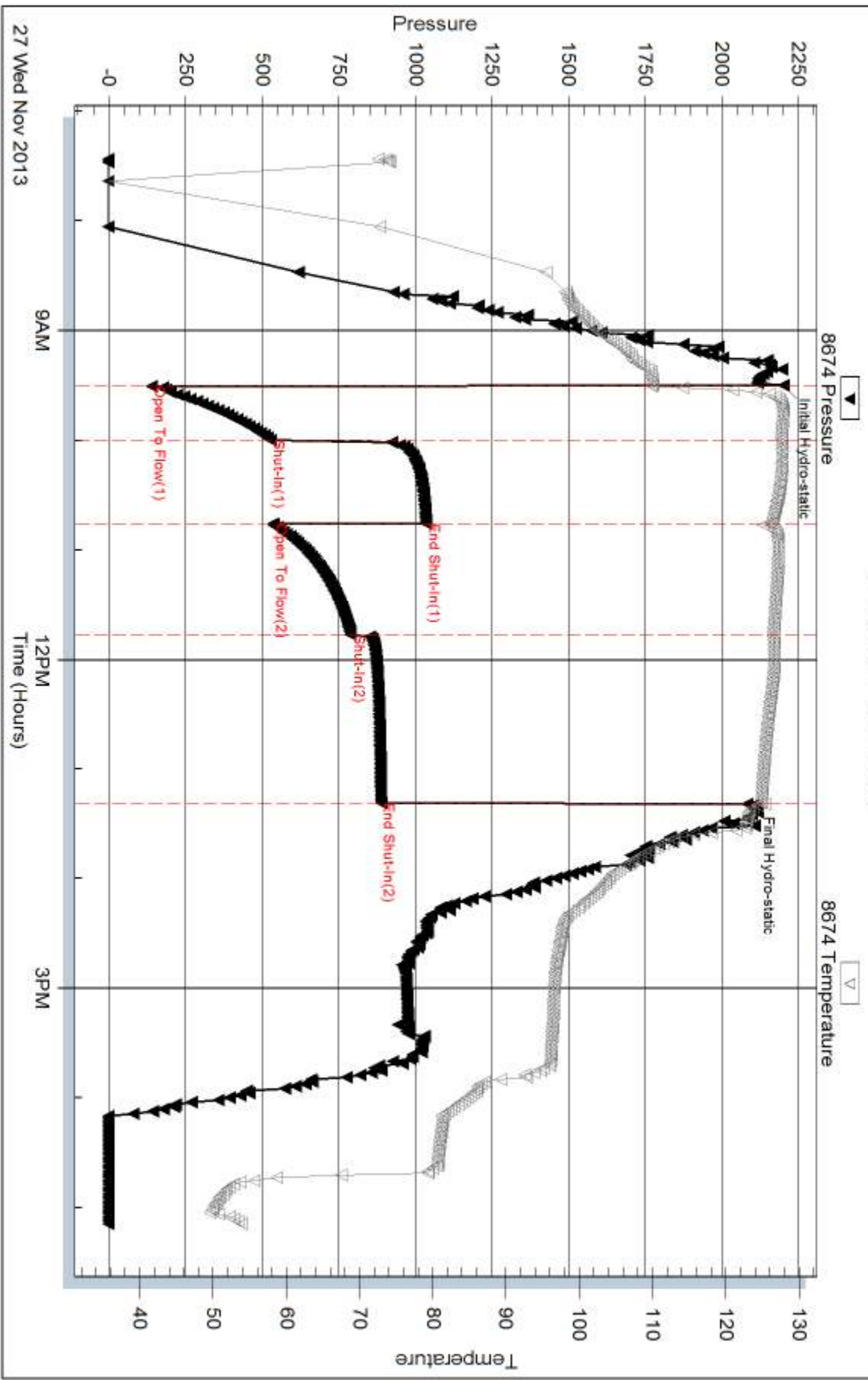
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API is 34 @ 50f = 35

Pressure vs. Time

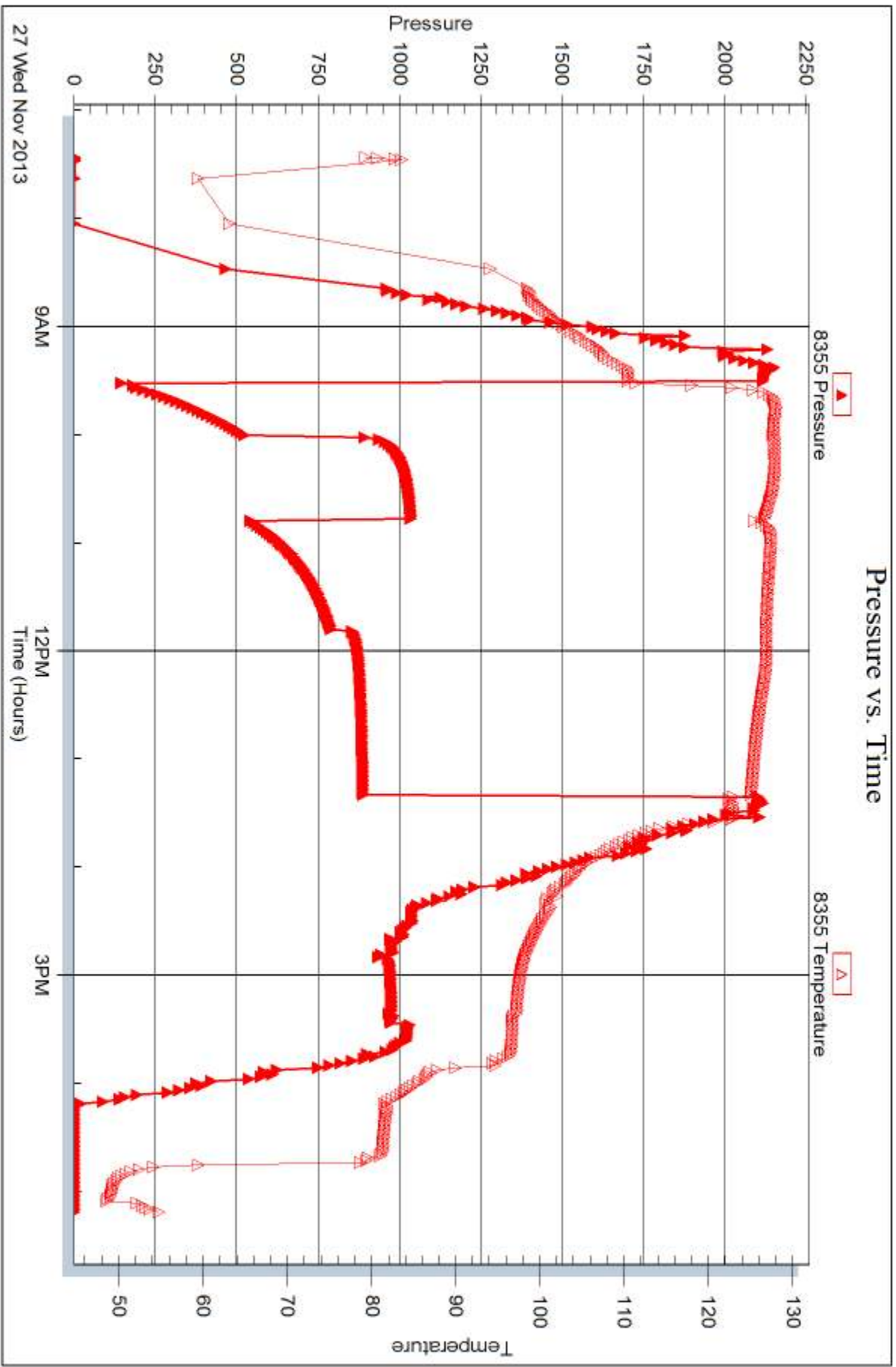


Serial #: 8355

Outside Landmark Resources Inc.

Kebs #1-5

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 53287

Printed: 2013.12.03 @ 13:49:44



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd Ste 600
Houston TX 77057

ATTN: Terry McLeod

Krebs #1-5

5-17s-33w Scott,KS

Start Date: 2013.11.27 @ 22:46:00

End Date: 2013.11.28 @ 06:44:09

Job Ticket #: 53288 DST #: 3

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

Printed: 2013.12.03 @ 13:48:17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources Inc.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 53288

DST#: 3

ATTN: Terry McLeod

Test Start: 2013.11.27 @ 22:46:00

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:55:25

Time Test Ended: 06:44:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4449.00 ft (KB) To 4488.00 ft (KB) (TVD)

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4488.00 ft (KB) (TVD)

3081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8674 Inside

Press@RunDepth: 1153.46 psig @ 4451.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.27

End Date:

2013.11.28

Last Calib.:

2013.11.28

Start Time: 22:46:00

End Time:

06:44:09

Time On Btm:

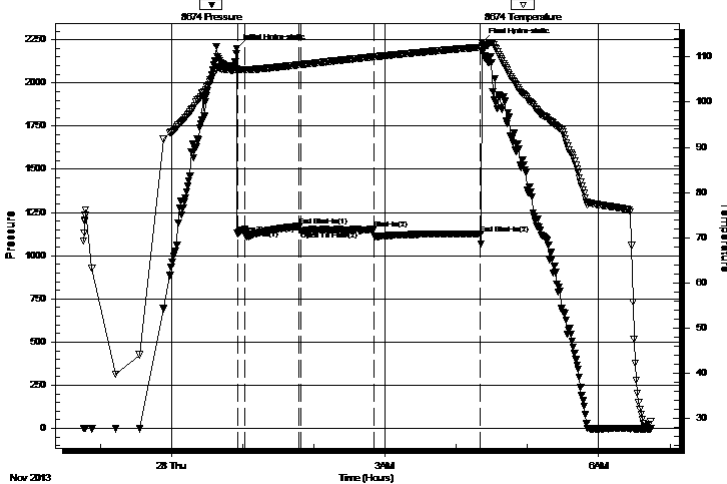
2013.11.28 @ 00:55:10

Time Off Btm:

2013.11.28 @ 04:21:39

TEST COMMENT: That Circulating Sub has two holes for pins that one had a weld in it i never noticed that it wasnt still welded when i changed that pin on the other side it went in the hole with that one hole open

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2198.28	107.50	Initial Hydro-static
1	1127.94	107.04	Open To Flow (1)
7	1151.93	107.16	Shut-In(1)
53	1170.54	108.26	End Shut-In(1)
54	1141.51	108.29	Open To Flow (2)
116	1153.46	110.05	Shut-In(2)
206	1126.16	112.16	End Shut-In(2)
207	2234.50	112.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	100% m with Oil Spots in Tool	0.61

* 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.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 53288

DST#: 3

ATTN: Terry McLeod

Test Start: 2013.11.27 @ 22:46:00

Tool Information

Drill Pipe:	Length: 4182.00 ft	Diameter: 3.80 inches	Volume: 58.66 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: 28000.00 lb
Drill Collar:	Length: 277.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 10000.00 lb
			<u>Total Volume: 60.02 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 90000.00 lb
Depth to Top Packer:	4449.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 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			4428.00	
Shut In Tool	5.00			4433.00	
Hydraulic tool	5.00			4438.00	
Safety Joint	2.00			4440.00	
Packer	5.00			4445.00	22.00 Bottom Of Top Packer
Packer	4.00			4449.00	
Stubb	1.00			4450.00	
Perforations	1.00			4451.00	
Recorder	0.00	8355	Outside	4451.00	
Recorder	0.00	8674	Inside	4451.00	
Perforations	32.00			4483.00	
Bullnose	5.00			4488.00	39.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 53288

DST#: 3

ATTN: Terry McLeod

Test Start: 2013.11.27 @ 22:46:00

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: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	100% m with Oil Spots in Tool	0.610

Total Length: 124.00 ft Total Volume: 0.610 bbl

Num Fluid Samples: 0

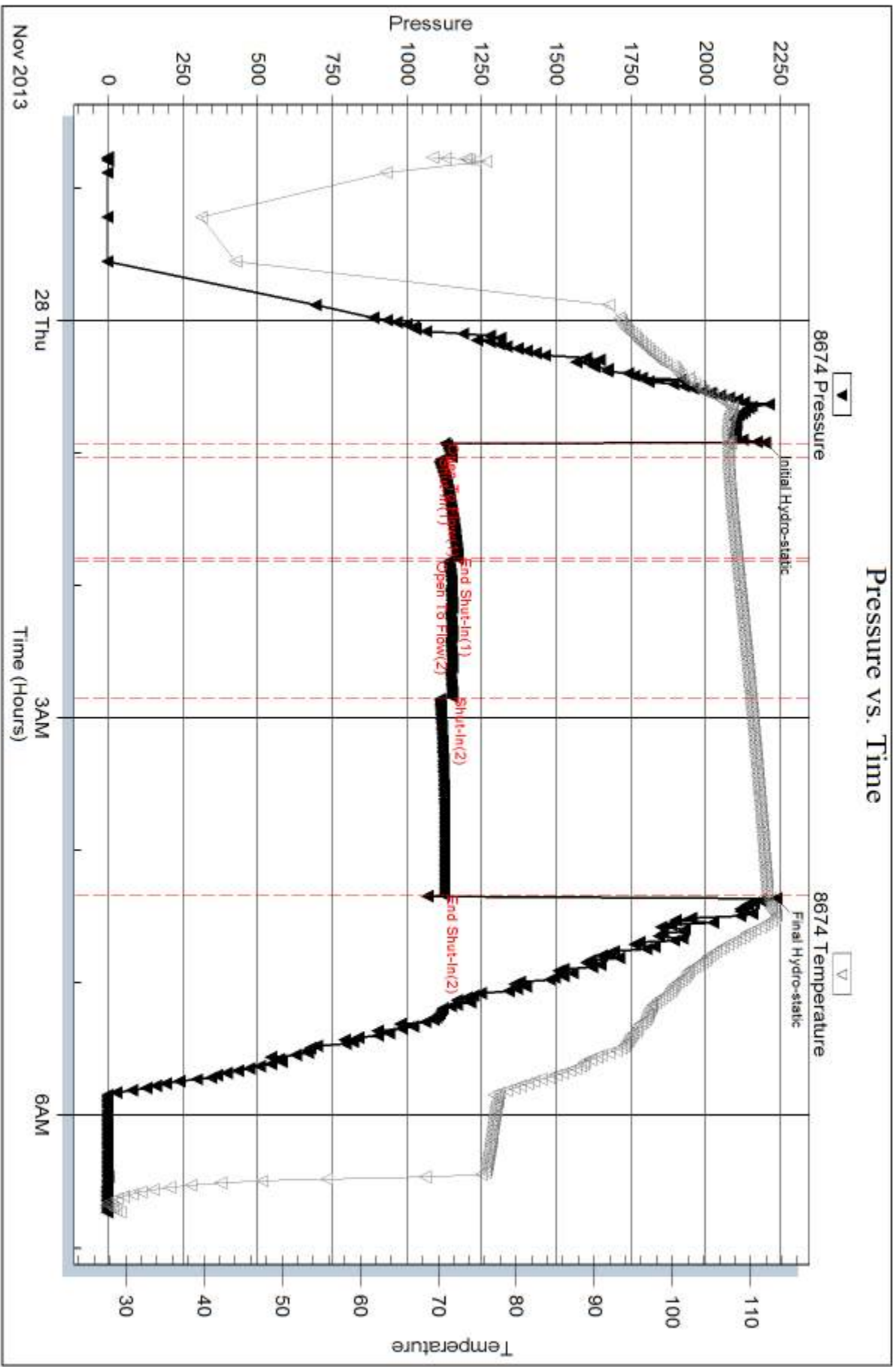
Num Gas Bombs: 0

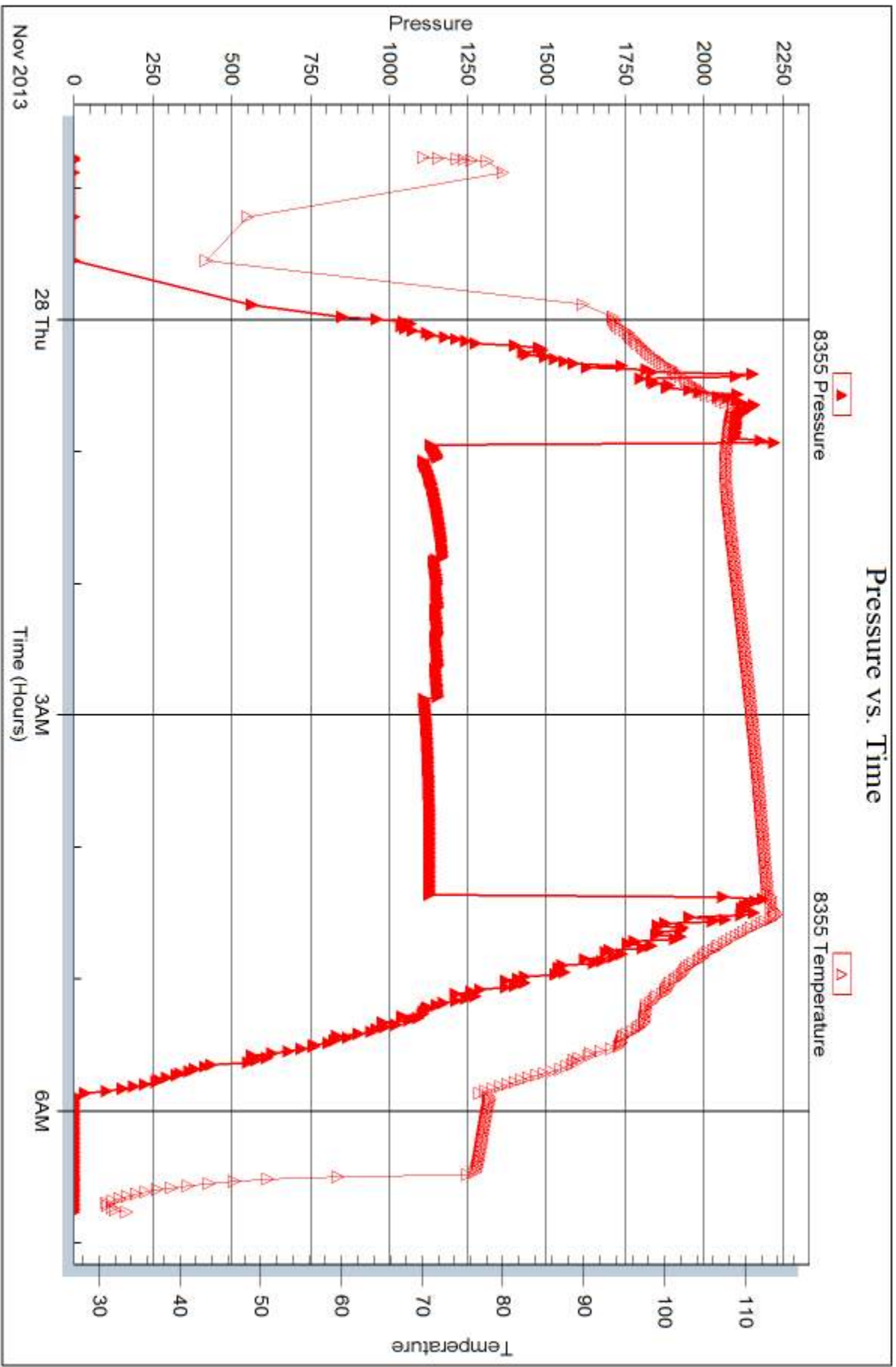
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery is invalid--- mud drained out of sub as tool w as tripped out of hole







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd Ste 600
Houston TX 77057

ATTN: Terry McLeod

Krebs #1-5

5-17s-33w Scott,KS

Start Date: 2013.11.28 @ 21:05:00

End Date: 2013.11.29 @ 05:03:39

Job Ticket #: 55557 DST #: 4

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

Printed: 2013.12.03 @ 13:43:21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources Inc.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 55557

DST#: 4

ATTN: Terry McLeod

Test Start: 2013.11.28 @ 21:05:00

GENERAL INFORMATION:

Formation: **Pawnee - Myric St. -**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:59:00

Time Test Ended: 05:03:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4502.00 ft (KB) To 4600.00 ft (KB) (TVD)

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4600.00 ft (KB) (TVD)

3081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 6741 Inside

Press@RunDepth: 74.36 psig @ 4507.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.28

End Date:

2013.11.29

Last Calib.: 2013.11.29

Start Time: 21:05:02

End Time:

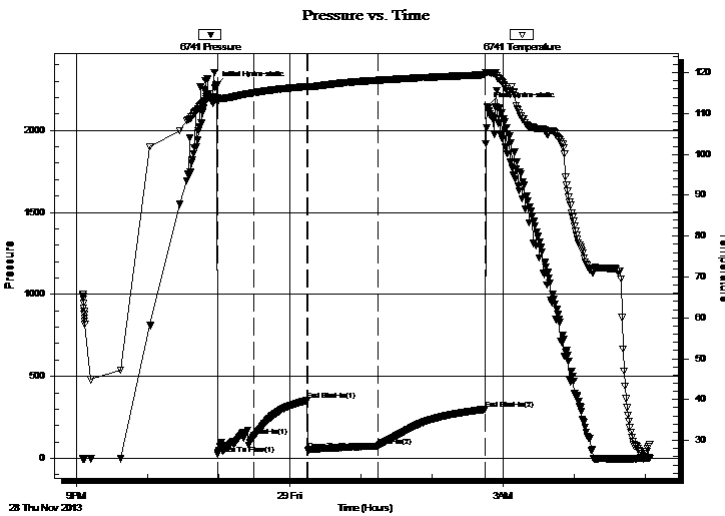
05:03:40

Time On Btm: 2013.11.28 @ 22:57:10

Time Off Btm: 2013.11.29 @ 02:46:30

TEST COMMENT: 10" Blow. Some plugging.
No return.
B.O.B. @ 6 min.
1/2" Return died @ 35 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2273.91	113.95	Initial Hydro-static
2	25.24	112.72	Open To Flow (1)
33	137.97	115.10	Shut-In (1)
78	352.65	116.62	End Shut-In (1)
78	50.04	116.52	Open To Flow (2)
137	74.36	118.14	Shut-In (2)
228	299.21	119.49	End Shut-In (2)
230	2147.02	120.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOCM 40g 20o 40m	0.30
68.00	GOCM 5g 10o 85m	0.33
25.00	GO 15g 85o	0.12
0.00	280 Weak GIP	0.00

* 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.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 55557

DST#: 4

ATTN: Terry McLeod

Test Start: 2013.11.28 @ 21:05:00

Tool Information

Drill Pipe:	Length: 4210.00 ft	Diameter: 3.80 inches	Volume: 59.06 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: 277.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 60.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.50 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4502.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	120.50 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			4480.50	
Shut In Tool	5.00			4485.50	
Hydraulic tool	5.00			4490.50	
Safety Joint	2.50			4493.00	
Packer	5.00			4498.00	22.50 Bottom Of Top Packer
Packer	4.00			4502.00	
Stubb	1.00			4503.00	
Perforations	4.00			4507.00	
Recorder	0.00	6741	Inside	4507.00	
Recorder	0.00	6751	Outside	4507.00	
Perforations	25.00			4532.00	
Change Over Sub	1.00			4533.00	
Drill Pipe	63.00			4596.00	
Change Over Sub	1.00			4597.00	
Bullnose	3.00			4600.00	98.00 Bottom Packers & Anchor

Total Tool Length: 120.50



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 55557

DST#: 4

ATTN: Terry McLeod

Test Start: 2013.11.28 @ 21:05:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 55.00 sec/qt
Water Loss: 8.77 in³
Resistivity: ohm.m
Salinity: 5000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: 41 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GOCM 40g 20o 40m	0.305
68.00	GOCM 5g 10o 85m	0.334
25.00	GO 15g 85o	0.123
0.00	280 Weak GIP	0.000

Total Length: 155.00 ft Total Volume: 0.762 bbl

Num Fluid Samples: 0

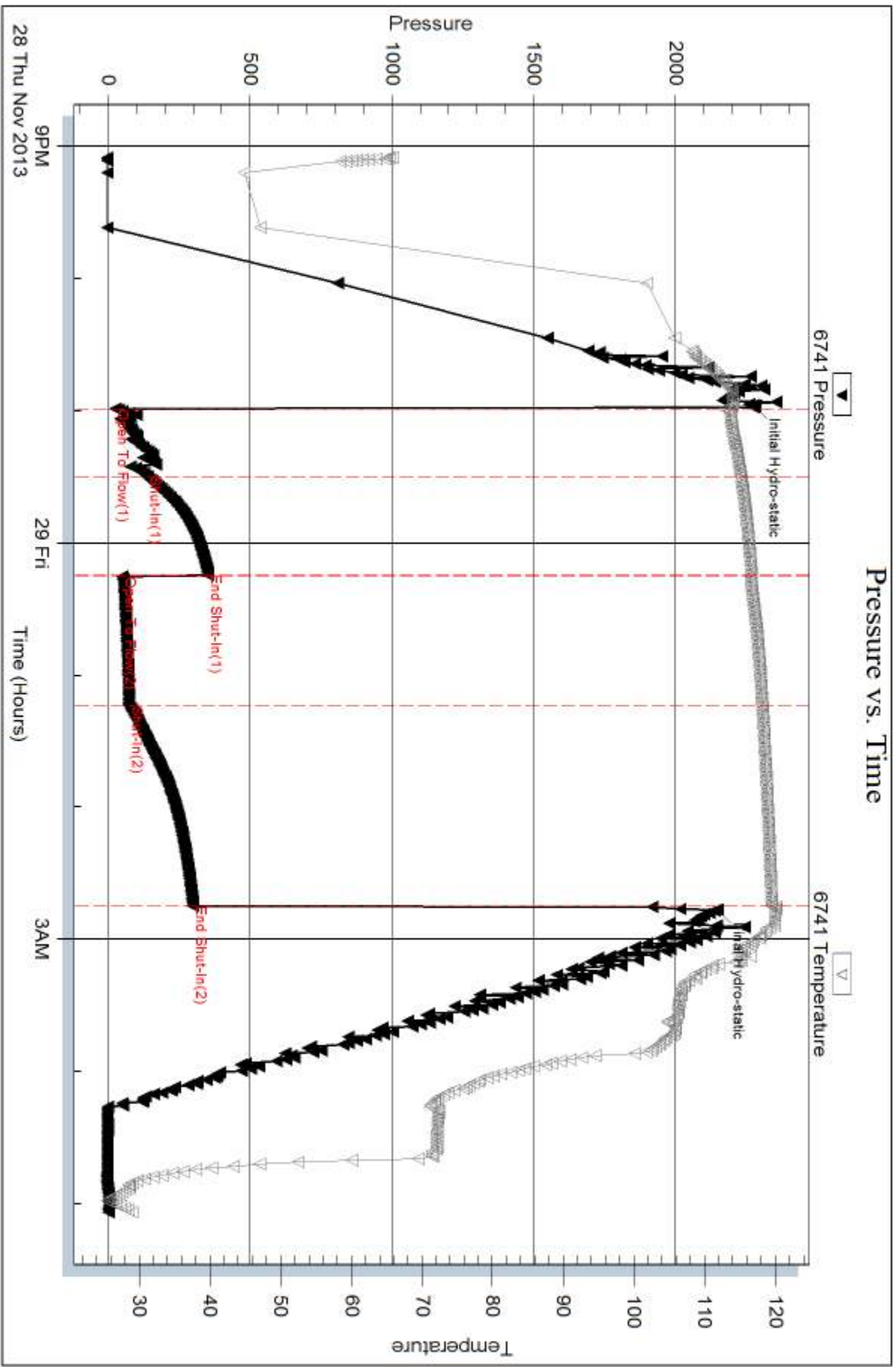
Num Gas Bombs: 0

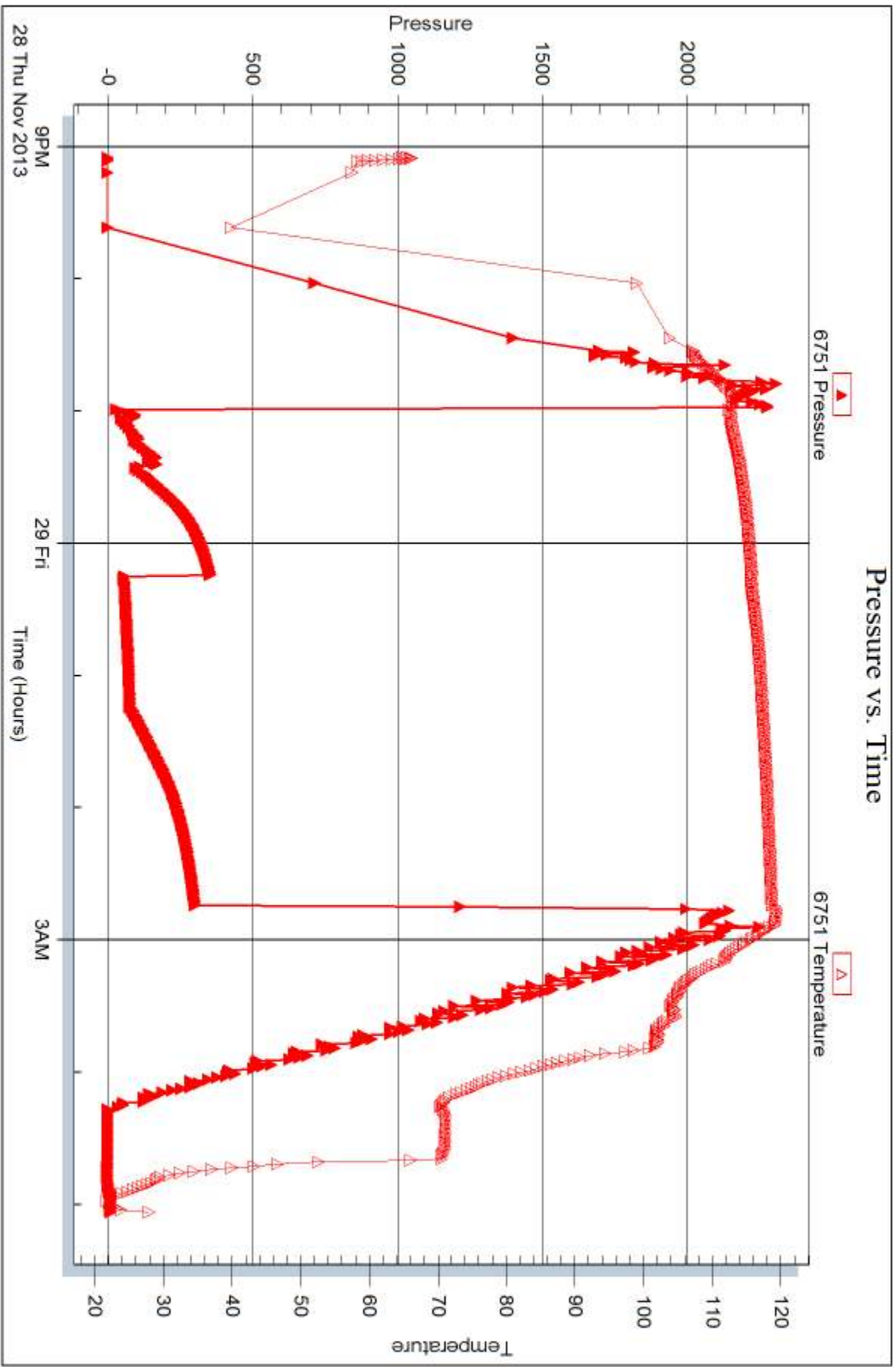
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 37 @ 20 Degrees F = 41







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd Ste 600
Houston TX 77057

ATTN: Terry McLeod

Krebs #1-5

5-17s-33w Scott,KS

Start Date: 2013.11.29 @ 16:32:00

End Date: 2013.11.30 @ 01:40:55

Job Ticket #: 53289 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.12.03 @ 13:35:50



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources Inc.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 53289

DST#: 5

ATTN: Terry McLeod

Test Start: 2013.11.29 @ 16:32:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:45:55

Time Test Ended: 01:40:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Will MacLean

Unit No: 58

Interval: 4619.00 ft (KB) To 4720.00 ft (KB) (TVD)

Reference Elevations: 3092.00 ft (KB)

Total Depth: 4720.00 ft (KB) (TVD)

3081.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8672 Inside

Press@RunDepth: 263.39 psig @ 4621.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.29

End Date: 2013.11.30

Last Calib.: 2013.11.30

Start Time: 16:32:00

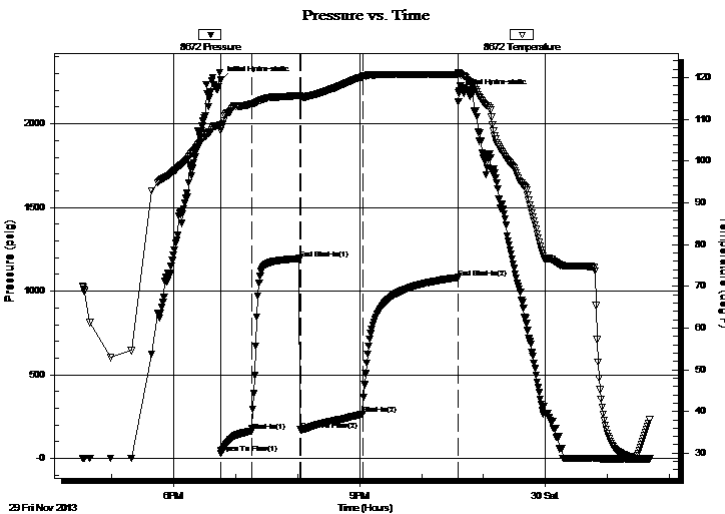
End Time: 01:40:55

Time On Btm: 2013.11.29 @ 18:45:25

Time Off Btm: 2013.11.29 @ 22:35:54

TEST COMMENT: IF- Weak Surface Blow Built to BOB in 15 1/4 min
IS- Weak Surface Blow Built to 1 1/2"
FF- Weak Surface Blow Built to BOB in 9 1/2 min
FS- Weak Surface Blow Built to 2" Died Back to 1 1/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.39	108.80	Initial Hydro-static
1	32.04	108.07	Open To Flow (1)
30	163.00	113.70	Shut-In(1)
77	1194.27	115.69	End Shut-In(1)
78	168.88	115.31	Open To Flow (2)
138	263.39	120.18	Shut-In(2)
230	1081.06	120.73	End Shut-In(2)
231	2182.87	121.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	OGCM 5%oil 8%g 87%m	0.61
124.00	WGOCM 4%w 5%g 8%oil 83%m	0.61
62.00	OGCM 11%oil 14%g 75%m	0.61
248.00	OGCM 25%oil 34%g 41%m	3.48
10.00	GOCM 3%g 20%oil 77%m	0.14
0.00	610 Weak GIP	0.00

* 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.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 53289

DST#: 5

ATTN: Terry McLeod

Test Start: 2013.11.29 @ 16:32:00

Tool Information

Drill Pipe:	Length: 4336.00 ft	Diameter: 3.80 inches	Volume: 60.82 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: 24000.00 lb
Drill Collar:	Length: 277.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 26000.00 lb
			<u>Total Volume: 62.18 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4619.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	101.00 ft			
Tool Length:	123.00 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			4598.00	
Shut In Tool	5.00			4603.00	
Hydraulic tool	5.00			4608.00	
Safety Joint	2.00			4610.00	
Packer	5.00			4615.00	22.00 Bottom Of Top Packer
Packer	4.00			4619.00	
Stubb	1.00			4620.00	
Perforations	1.00			4621.00	
Recorder	0.00	8355	Outside	4621.00	
Recorder	0.00	8672	Inside	4621.00	
Perforations	29.00			4650.00	
Change Over Sub	1.00			4651.00	
Drill Pipe	63.00			4714.00	
Change Over Sub	1.00			4715.00	
Bullnose	5.00			4720.00	101.00 Bottom Packers & Anchor

Total Tool Length: 123.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

5-17s-33w Scott,KS

1616 S. Voss Rd Ste 600
Houston TX 77057

Krebs #1-5

Job Ticket: 53289

DST#: 5

ATTN: Terry McLeod

Test Start: 2013.11.29 @ 16:32:00

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:

29500 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
124.00	OGCM 5%oil 8%g 87%m	0.610
124.00	WGOCM 4%w 5%g 8%oil 83%m	0.610
62.00	OGCM 11%oil 14%g 75%m	0.606
248.00	OGCM 25%oil 34%g 41%m	3.479
10.00	GOCM 3%g 20%oil 77%m	0.140
0.00	610 Weak GIP	0.000

Total Length: 568.00 ft

Total Volume: 5.445 bbl

Num Fluid Samples: 0

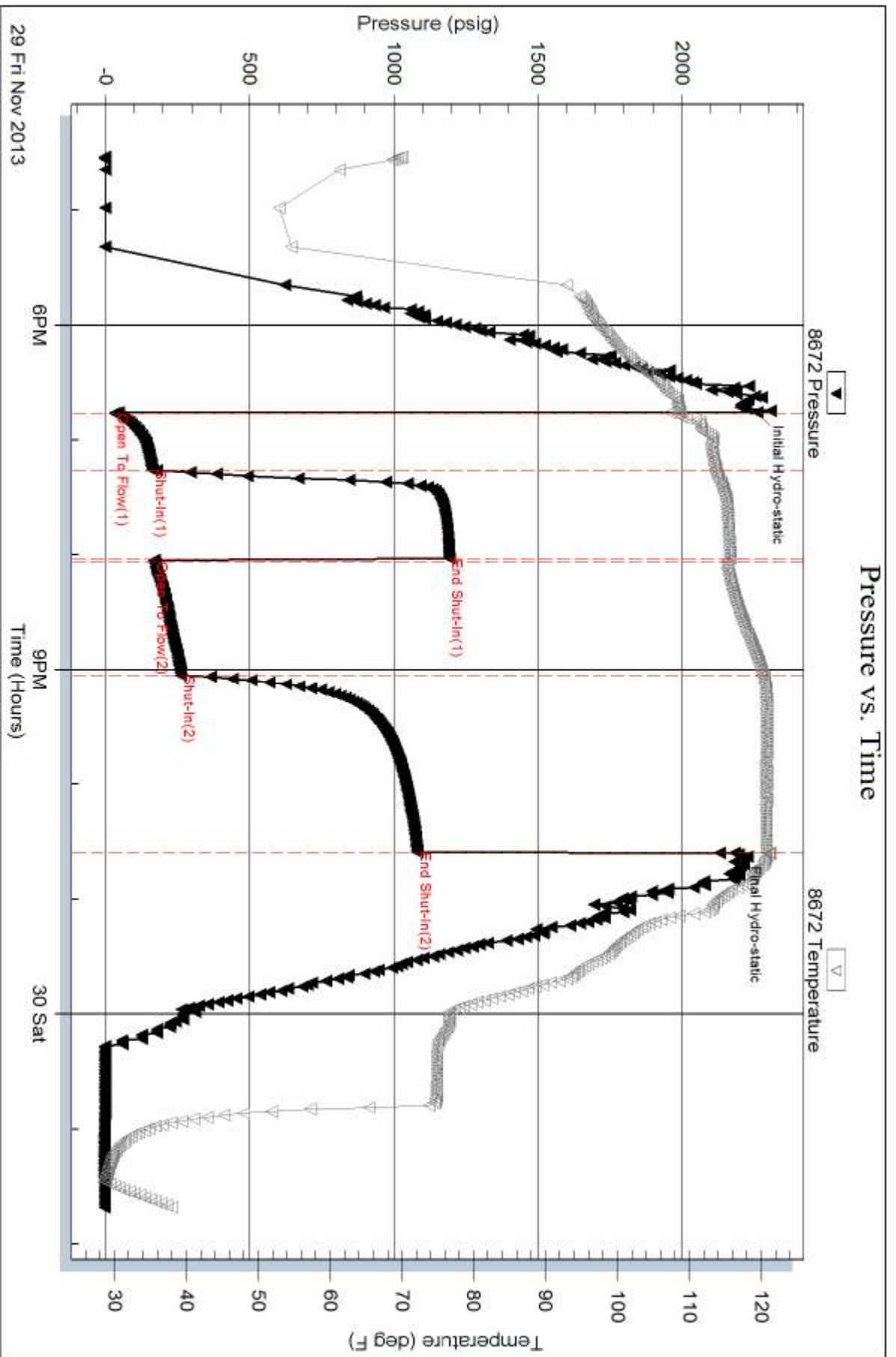
Num Gas Bombs: 0

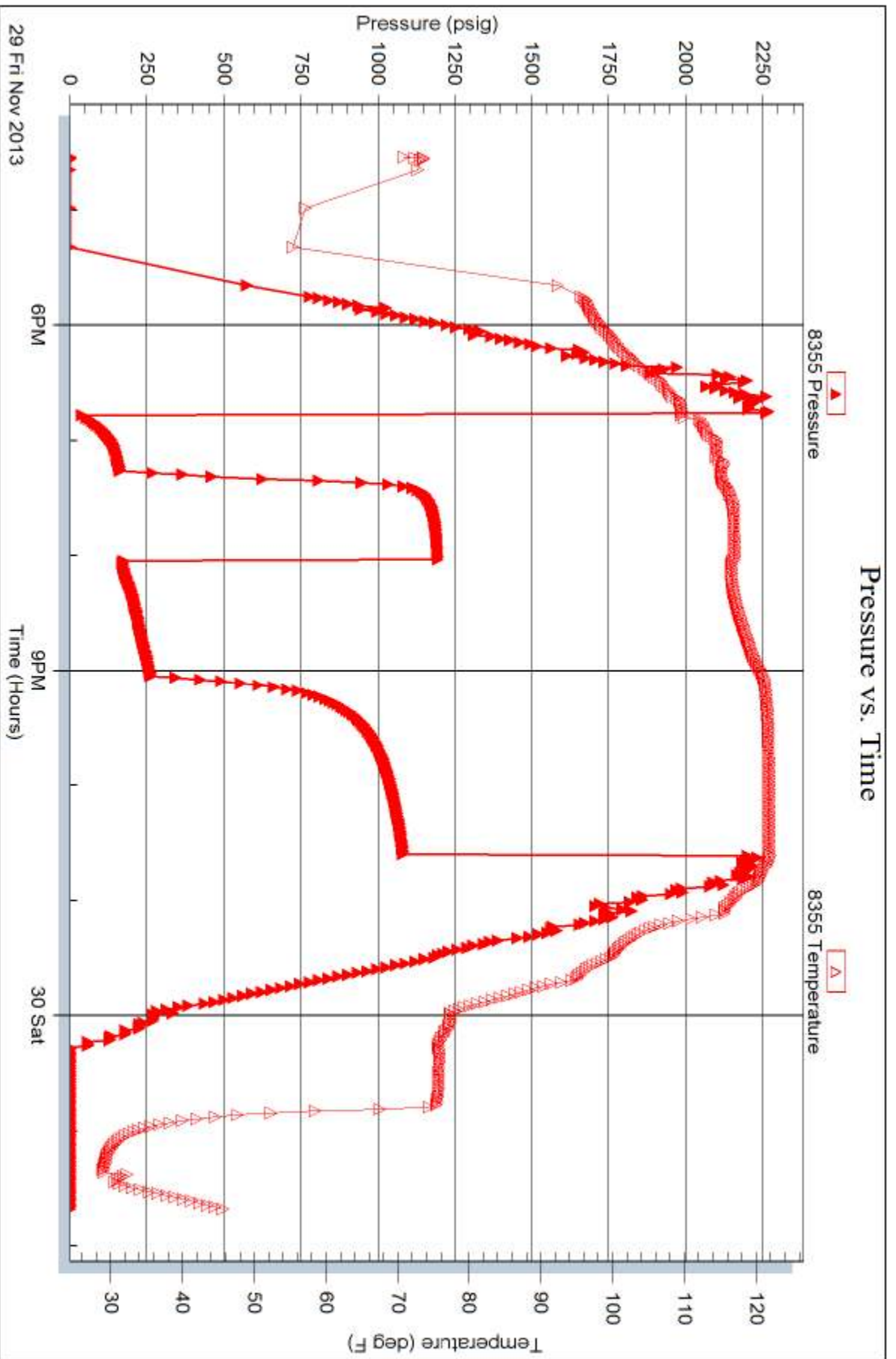
Serial #:

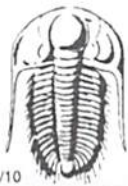
Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .352 @ 45f = 29,500







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53286

4/10

Well Name & No. Krebs #1-5 Test No. DST #1 Date 11-26-13
 Company Landmark Resources Inc Elevation 3092 KB 3081 GL
 Address 1616 S. Voss Rd Ste 600 Houston TX 77057
 Co. Rep / Geo. _____ Rig Martin 21
 Location: Sec. 5 Twp. 17S Rge. 33W Co. Scott State KS

Interval Tested 4441 - 4457 Zone Tested Marmanton
 Anchor Length 16 Drill Pipe Run 4152 Mud Wt. 9.1
 Top Packer Depth 4437 Drill Collars Run 277 Vis 53
 Bottom Packer Depth 4441 Wt. Pipe Run 0 WL 7.2
 Total Depth 4457 Chlorides 3400 ppm System LCM 316

Blow Description IF - 1/4" Blow Dried Back to Weak Surface Blow
ISF - No Blow
FF - No Blow
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud with oil spots</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

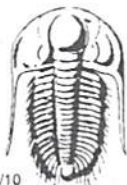
Rec Total 2 BHT 116 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2156 Test 1250 T-On Location 12:30
 (B) First Initial Flow 13 Jars _____ T-Started 15:32
 (C) First Final Flow 15 Safety Joint 75 T-Open 17:39
 (D) Initial Shut-In 19 Circ Sub NIC T-Pulled 20:58
 (E) Second Initial Flow 15 Hourly Standby _____ T-Out 22:59
 (F) Second Final Flow 16 Mileage 43.40 Comments _____
 (G) Final Shut-In 19 Sampler _____
 (H) Final Hydrostatic 2083 Straddle _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1368.40
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1368.40

Approved By _____ Our Representative Wm Martin

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. 53287

Well Name & No. Krebs #1-5 Test No. DST #2 Date 11-27-13
 Company Landmark Resources Inc Elevation 3092 KB 3081 GL
 Address 1616 S. Voss Rd Ste 600 Houston TX 77057
 Co. Rep / Geo. Terry McLeod Rig Morfin 21
 Location: Sec. 5 Twp. 17s Rge. 33w Co. Scott State KS

Interval Tested 4454 - 4483 Zone Tested Altamont
 Anchor Length 29 Drill Pipe Run 4179 Mud Wt. 9.1
 Top Packer Depth 4450 Drill Collars Run 277 Vis 53
 Bottom Packer Depth 4454 Wt. Pipe Run 0 WL 7.2
 Total Depth 4483 Chlorides 3400 ppm System LCM 3/6

Blow Description FF - Surface Blow Built to BOB in 1 1/2 min
ISI - Wear Surface Blow Built to 4"
FF - Surface Blow Built to BOB in 3 1/4 min
FSI - Well Surface Blow Built to 2 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
87	G-O	20	80		
2170	G-O	32	68		
62	G-O-C-M	15	40		45
62	M-G-C-O	28	50		22
	Feet of <u>1215' of GJP</u>	%gas	%oil	%water	%mud

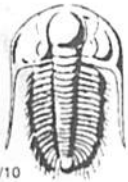
Rec Total _____ BHT 125 Gravity 35 API RW ~~35~~ @ ~~50~~ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2200 Test 1250 T-On Location 6:40
 (B) First Initial Flow 139 Bars _____ T-Started 7:26
 (C) First Final Flow 528 Safety Joint 75 T-Open 9:30
 (D) Initial Shut-In 1033 Circ Sub Dropped Bar 50 T-Pulled 13:19
 (E) Second Initial Flow 535 Hourly Standby _____ T-Out 17:09
 (F) Second Final Flow 789 Mileage 43.40 Comments _____
 (G) Final Shut-In 887 Sampler _____ API 34 @ 50 f = 35
 (H) Final Hydrostatic 2083 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 60 Day Standby _____ Total 1418.40
 Final Shut-In 90 Accessibility _____ MP/DST Disc't _____
 Sub Total 1418.40

Approved By Terry L. McLeod Our Representative Nick Maddox

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. 53288

Well Name & No. Krebs #1-5 Test No. DST #3 Date 11-27-13
 Company Landmark Resources Inc Elevation 3092 KB 3081 GL
 Address 1616 S. Voss Rd Ste 600 Houston TX 77057
 Co. Rep / Geo. Terry McLeod Rig Murfin 21
 Location: Sec. 5 Twp. 17s Rge. 33w Co. Scott State KS

Interval Tested 4449 - 4488 Zone Tested Altamont
 Anchor Length 39 Drill Pipe Run 4182 Mud Wt. 9.2
 Top Packer Depth 4445 Drill Collars Run 277 Vis 58
 Bottom Packer Depth 4449 Wt. Pipe Run 0 WL 7.2
 Total Depth 4488 Chlorides 4300 ppm System LCM 316
 Blow Description IF - Weak Surface Blow 1/2"
ISI - No Blow
FF - No Blow
FST - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>Mud with Oil Spots in Tool</u>				

Rec Total _____ BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2198 Test 1050 T-On Location 22:28
 (B) First Initial Flow 1127 Jars _____ T-Started 22:46
 (C) First Final Flow 1151 Safety Joint 75 T-Open 00:55
 (D) Initial Shut-In 1170 Circ Sub _____ T-Pulled 4:21
 (E) Second Initial Flow 1141 Hourly Standby _____ T-Out 6:44
 (F) Second Final Flow 1153 Mileage 28 RIT 43.40 Comments _____
 (G) Final Shut-In 1126 Sampler _____
 (H) Final Hydrostatic 2234 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 5 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1168.40 ??
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1168.40 ??

Approved By Terry McLeod Our Representative Tom Mack

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. 55557

Well Name & No. Krebs #1-5 Test No. 4 Date 11-28-13
 Company Landmark Resources Inc. Elevation 3092 KB 3081 GL
 Address 1616 S. Voss Rd. STE 600 Houston, TX 77057
 Co. Rep / Geo. Terry McLeod Rig M.D.C. #21
 Location: Sec. 5 Twp. 17s Rge. 33w Co. Scott State Ks

Interval Tested 4502-4600 Zone Tested Pawnee-Myric St. - Fr. Scott
 Anchor Length 98 Drill Pipe Run 4210 Mud Wt. 9.2
 Top Packer Depth 4498 Drill Collars Run 277 Vis 55
 Bottom Packer Depth 4502 Wt. Pipe Run 0 WL 8.8
 Total Depth 4600 Chlorides 5000 ppm System LCM 2"

Blow Description 10" Blow Some plugging.
No return.
B.O.B. @ 6 min
1/2" Return died @ 35 min.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>25</u>	Feet of <u>60</u>	<u>15</u> %gas	<u>85</u> %oil	%water	%mud
Rec <u>68</u>	Feet of <u>GOCM</u>	<u>5</u> %gas	<u>10</u> %oil	%water	<u>85</u> %mud
Rec <u>62</u>	Feet of <u>GOCM</u>	<u>40</u> %gas	<u>20</u> %oil	%water	<u>40</u> %mud
Rec	Feet of <u>280' Weak GIP</u>	%gas	%oil	%water	%mud

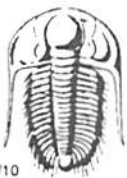
Rec Total 155 BHT 120 Gravity 41 API RW @ ° F Chlorides — ppm

(A) Initial Hydrostatic 2274 Test 1250 T-On Location 19:45
 (B) First Initial Flow 25 Jars _____ T-Started 9:05
 (C) First Final Flow 138 Safety Joint 75 T-Open 22:
 (D) Initial Shut-In 353 Circ Sub NIC T-Pulled 2:
 (E) Second Initial Flow 50 Hourly Standby _____ T-Out 5:04
 (F) Second Final Flow 74 Mileage 43.40 Comments _____
 (G) Final Shut-In 299 Sampler _____
 (H) Final Hydrostatic 2147 Straddle _____

Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1368.40
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1368.40

Approved By Jay L. McLeod Our Representative Chuck Smith

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **53289**

4/10

Well Name & No. Krebs #1-5 Test No. DST #5 Date 11-29-13
 Company Landmark Resources Inc Elevation 3092 KB 3081 GL
 Address 1616 S. Voss Rd Ste 600 Houston TX 77057
 Co. Rep / Geo. Terry McLeod Rig Murfin 21
 Location: Sec. 5 Twp. 17s Rge. 33W Co. Scott State KS

Interval Tested 4619-4720 Zone Tested Johnson
 Anchor Length 101 Drill Pipe Run 4336 Mud Wt. 9.2
 Top Packer Depth 4615 Drill Collars Run 277 Vis 54
 Bottom Packer Depth 4619 Wt. Pipe Run 0 WL 10.8
 Total Depth 4720 Chlorides 8500 ppm System LCM 2/b

Blow Description IF - Weak Surface Blow Built to B013 in 15 1/4 min
ISI - Weak Surface Blow Built to 1 1/2"
FF - Weak Surface Blow Built to B013 in 9 1/2 min
FSI - Weak Surface Blow Built to 2" Dred Back to 1 1/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>0-0CM</u>	<u>3</u>	<u>20</u>	<u>77</u>	
<u>248</u>	<u>00-CM</u>	<u>34</u>	<u>25</u>	<u>41</u>	
<u>62</u>	<u>00-CM</u>	<u>14</u>	<u>11</u>	<u>75</u>	
<u>134</u>	<u>W0-0CM</u>	<u>5</u>	<u>8</u>	<u>4</u>	<u>83</u>
<u>124</u>	<u>00-CM</u>	<u>8</u>	<u>5</u>		<u>87</u>

Rec Total 568 BHT 122 Gravity _____ API RW 352 @ 45 F Chlorides 29500 ppm

- (A) Initial Hydrostatic 2260
- (B) First Initial Flow 22
- (C) First Final Flow 163
- (D) Initial Shut-In 1194
- (E) Second Initial Flow 168
- (F) Second Final Flow 263
- (G) Final Shut-In 1081
- (H) Final Hydrostatic 2182

- Test 1250
 - Jars _____
 - Safety Joint 75
 - Circ Sub NIC
 - Hourly Standby _____
 - Mileage 28R/T 86.80
 - Sampler _____
 - Straddle _____
 - Shale Packer _____
 - Extra Packer _____
 - Extra Recorder _____
 - Day Standby _____
 - Accessibility _____
- Sub Total 1411.80

T-On Location 15:18
 T-Started 16:32
 T-Open 18:45
 T-Pulled 22:35
 T-Out 1:40

Comments 610' of Weak G-IP
loaded tools 11/30 9:00

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1411.80
 MP/DST Disc't _____

Approved By Terry McLeod Our Representative Will Mc

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