



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S Voss Road
Suite 600
Houston, TX 77057+2641

ATTN: Wes Hansen

Jones #1-25

25-10S-18W Rooks,KS

Start Date: 2017.03.25 @ 01:00:00

End Date: 2017.03.25 @ 06:53:00

Job Ticket #: 64813 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.29 @ 13:22:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64813

DST#: 1

Test Start: 2017.03.25 @ 01:00:00

GENERAL INFORMATION:

Formation: **Oread - LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:47:30

Time Test Ended: 06:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3190.00 ft (KB) To 3290.00 ft (KB) (TVD)

Reference Elevations: 2042.00 ft (KB)

Total Depth: 3290.00 ft (KB) (TVD)

2037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press@RunDepth: 37.62 psig @ 3286.37 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.25

End Date:

2017.03.25

Last Calib.:

2017.03.25

Start Time: 01:00:05

End Time:

06:52:59

Time On Btm:

2017.03.25 @ 02:46:30

Time Off Btm:

2017.03.25 @ 05:34:00

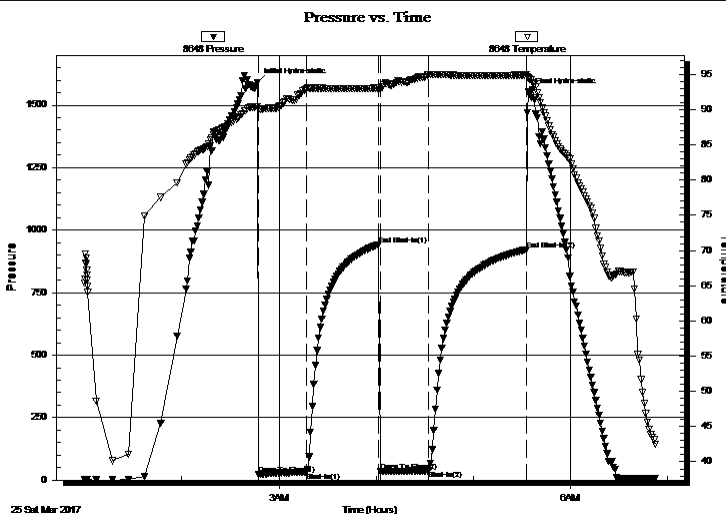
TEST COMMENT: IFP 30 Minutes Blow built to 1 1/2"

ISI 45 Minutes No blow back

FFP 30 Minutes Surface blow started after 10 minutes and remained throughout did not build

FSI 60 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1591.00	90.40	Initial Hydro-static
1	23.39	90.07	Open To Flow (1)
31	32.24	92.99	Shut-In(1)
75	942.01	93.06	End Shut-In(1)
76	35.75	92.80	Open To Flow (2)
106	37.62	94.95	Shut-In(2)
166	921.84	94.93	End Shut-In(2)
168	1551.39	94.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	MW w/ show of oil Mud 40% Water 60%	0.36

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64813

DST#: 1

Test Start: 2017.03.25 @ 01:00:00

GENERAL INFORMATION:

Formation: **Oread - LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:47:30

Time Test Ended: 06:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3190.00 ft (KB) To 3290.00 ft (KB) (TVD)

Reference Elevations: 2042.00 ft (KB)

Total Depth: 3290.00 ft (KB) (TVD)

2037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8960 Outside

Press@RunDepth: 917.61 psig @ 3287.37 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.25

End Date:

2017.03.25

Last Calib.:

2017.03.25

Start Time: 01:00:05

End Time:

06:53:29

Time On Btm:

2017.03.25 @ 02:46:30

Time Off Btm:

2017.03.25 @ 05:34:30

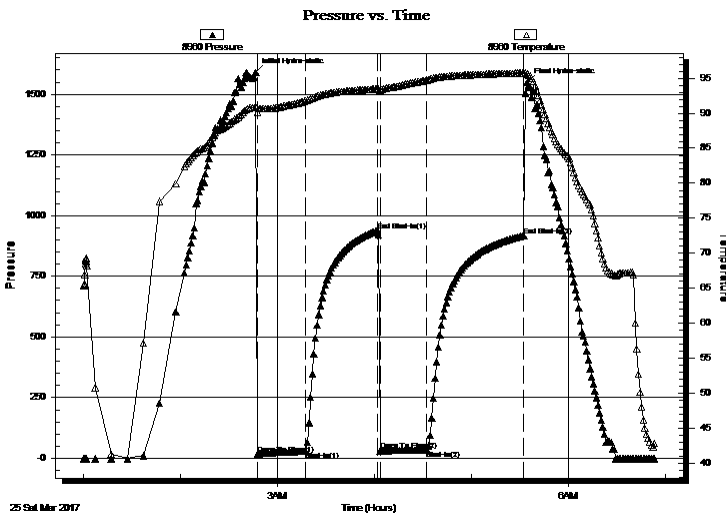
TEST COMMENT: IFP 30 Minutes Blow built to 1 1/2"

ISI 45 Minutes No blow back

FFP 30 Minutes Surface blow started after 10 minutes and remained throughout did not build

FSI 60 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1588.85	90.88	Initial Hydro-static
1	17.46	90.15	Open To Flow (1)
31	28.50	91.77	Shut-In(1)
76	938.77	93.47	End Shut-In(1)
77	30.88	93.32	Open To Flow (2)
106	33.72	94.74	Shut-In(2)
166	917.61	95.74	End Shut-In(2)
168	1548.71	95.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	MW w/ show of oil Mud 40% Water 60%	0.36

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64813

DST#: 1

Test Start: 2017.03.25 @ 01:00:00

Tool Information

Drill Pipe:	Length: 3166.00 ft	Diameter: 3.80 inches	Volume: 44.41 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 42000.00 lb
			Total Volume: 44.56 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3190.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	100.37 ft			
Tool Length:	128.37 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3167.00	
Hydraulic tool	5.00			3172.00	
Jars	6.00			3178.00	
Safety Joint	2.00			3180.00	
Top Packer	5.00			3185.00	
Packer	5.00			3190.00	28.00 Bottom Of Top Packer
Anchor	30.00			3220.00	
Change Over Sub	1.00			3221.00	
Drill Pipe	63.37			3284.37	
Change Over Sub	1.00			3285.37	
Recorder	1.00	8648	Inside	3286.37	
Recorder	1.00	8960	Outside	3287.37	
Bullnose	3.00			3290.37	100.37 Anchor Tool

Total Tool Length: 128.37



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64813

DST#: 1

Test Start: 2017.03.25 @ 01:00:00

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:

26000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.56 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	MW w/ show of oil Mud 40% Water 60%	0.358

Total Length: 45.00 ft Total Volume: 0.358 bbl

Num Fluid Samples: 0

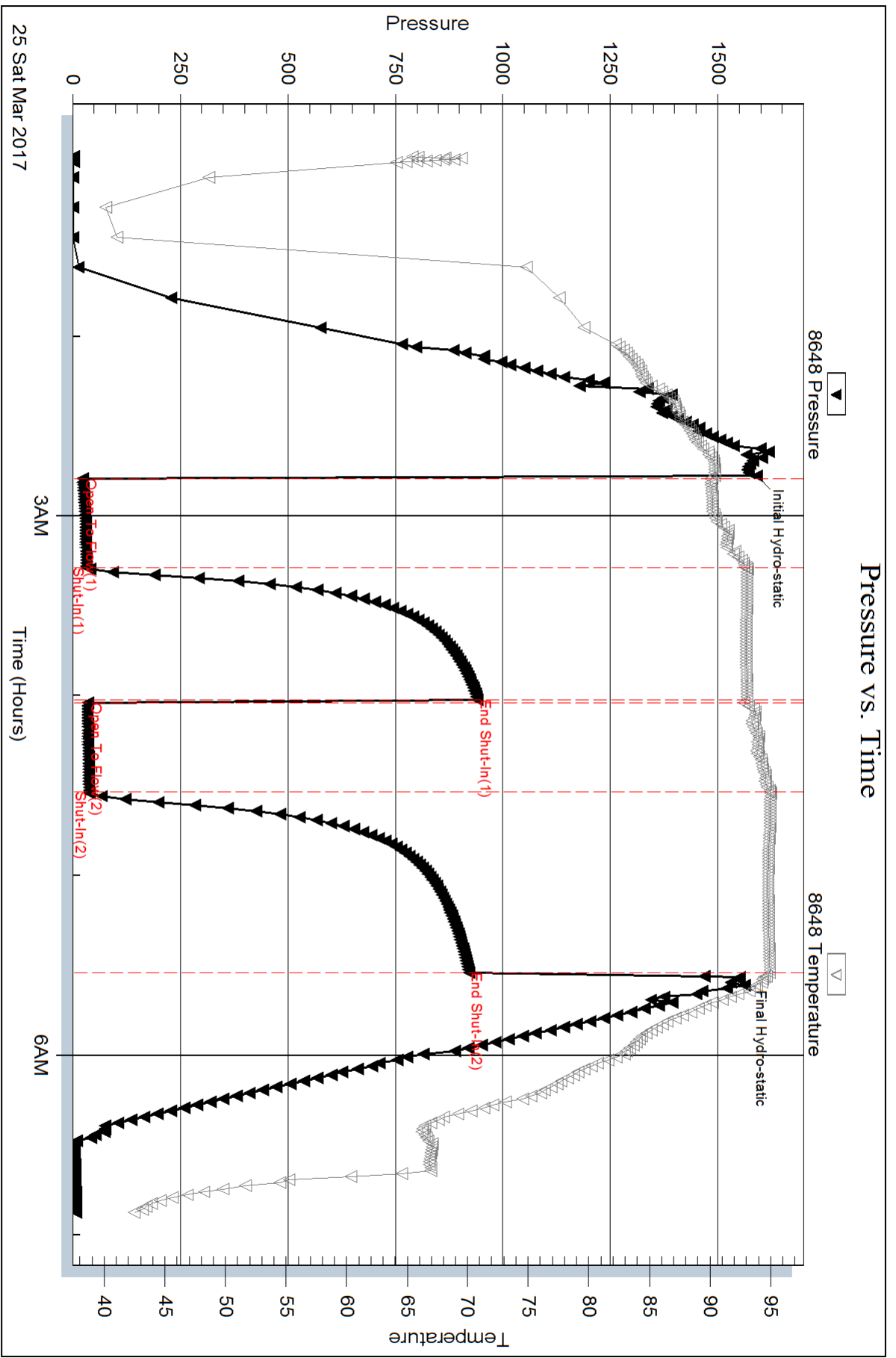
Num Gas Bombs: 0

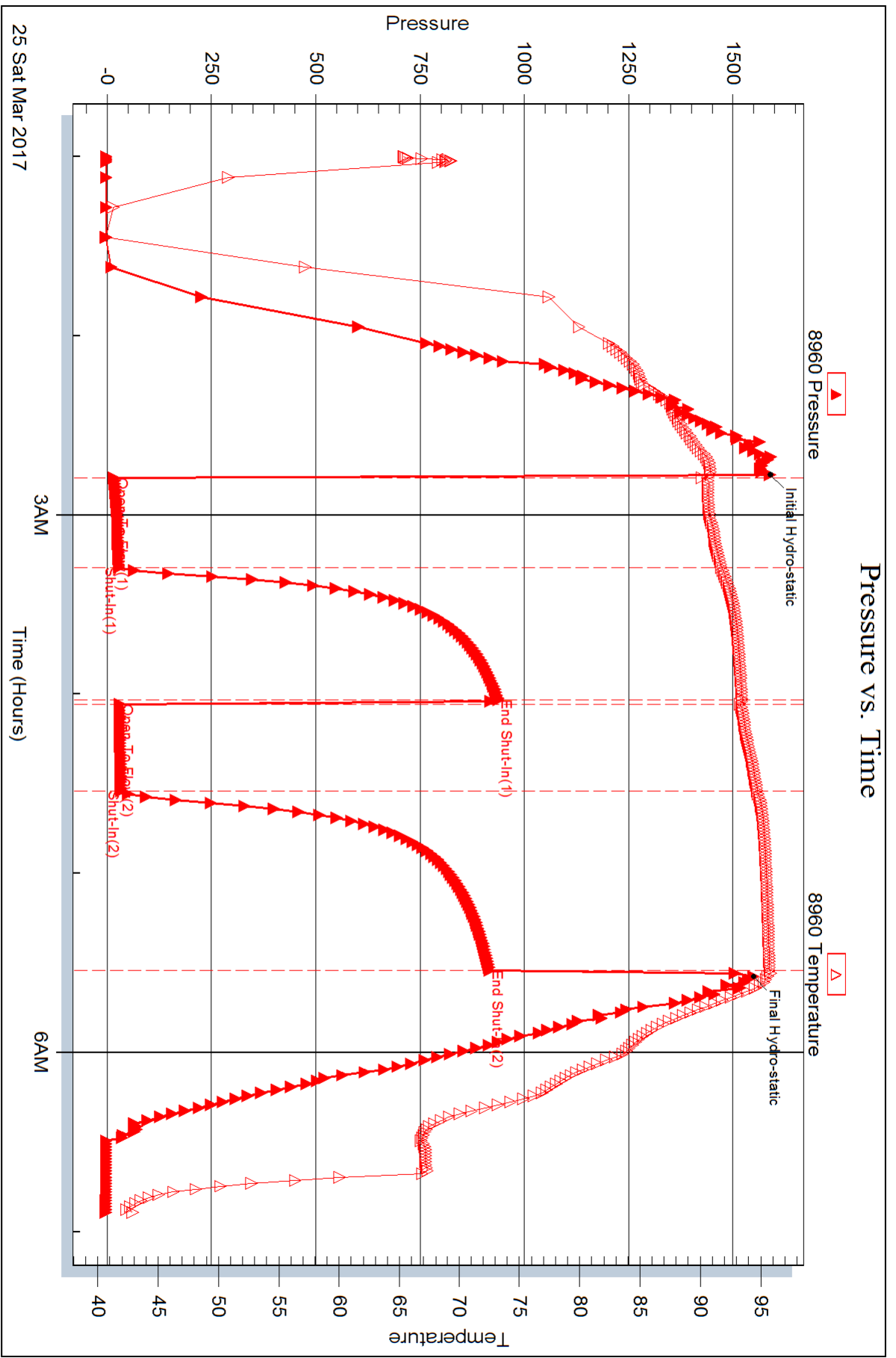
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .38 ohms @ 46 deg







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S Voss Road
Suite 600
Houston, TX 77057+2641

ATTN: Wes Hansen

Jones #1-25

25-10S-18W Rooks,KS

Start Date: 2017.03.25 @ 16:13:00

End Date: 2017.03.25 @ 21:12:30

Job Ticket #: 64814 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.29 @ 13:22:16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.
 1616 S Voss Road
 Suite 600
 Houston, TX 77057+2641
 ATTN: Wes Hansen

25-10S-18W Rooks,KS

Jones #1-25

Job Ticket: 64814

DST#: 2

Test Start: 2017.03.25 @ 16:13:00

GENERAL INFORMATION:

Formation: **LKC C - D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:52:30
 Time Test Ended: 21:12:30
 Interval: **3298.00 ft (KB) To 3350.00 ft (KB) (TVD)**
 Total Depth: 3350.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Reference Elevations: 2042.00 ft (KB)
 2037.00 ft (CF)
 KB to GR/CF: 5.00 ft

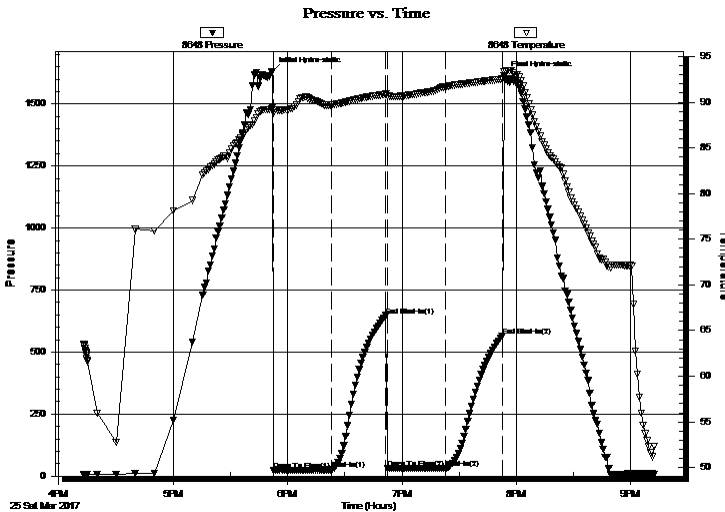
Serial #: 8648

Inside

Press@RunDepth: 31.42 psig @ 3345.70 ft (KB)
 Start Date: 2017.03.25 End Date: 2017.03.25
 Start Time: 16:13:05 End Time: 21:12:29
 Capacity: 8000.00 psig
 Last Calib.: 2017.03.25
 Time On Btm: 2017.03.25 @ 17:52:00
 Time Off Btm: 2017.03.25 @ 19:53:30

TEST COMMENT: IFP 30 Minutes Surface blow for 2 minutes then dead
 ISI 30 Minutes No blow back
 FFP 30 Minutes Few bubbles at open then dead
 FSI 30 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.72	89.42	Initial Hydro-static
1	23.67	88.80	Open To Flow (1)
31	25.81	89.67	Shut-In(1)
60	647.31	90.87	End Shut-In(1)
61	30.78	90.69	Open To Flow (2)
91	31.42	91.61	Shut-In(2)
121	565.26	92.52	End Shut-In(2)
122	1613.38	93.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w/oil spotts in tool/ Mud 100%	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64814

DST#: 2

Test Start: 2017.03.25 @ 16:13:00

GENERAL INFORMATION:

Formation: **LKC C - D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:52:30

Time Test Ended: 21:12:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3298.00 ft (KB) To 3350.00 ft (KB) (TVD)

Reference Elevations: 2042.00 ft (KB)

Total Depth: 3350.00 ft (KB) (TVD)

2037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8960 Outside

Press@RunDepth: 564.90 psig @ 3346.70 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.25 End Date: 2017.03.25

Last Calib.: 2017.03.25

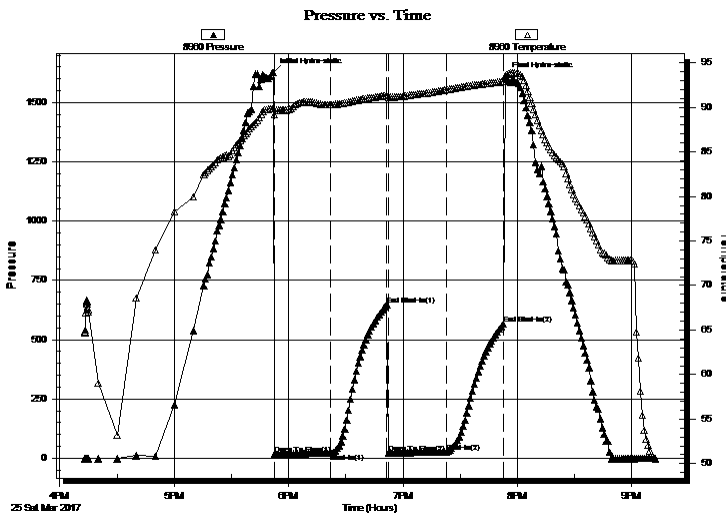
Start Time: 16:13:05 End Time: 21:12:29

Time On Btm: 2017.03.25 @ 17:52:00

Time Off Btm: 2017.03.25 @ 19:53:30

TEST COMMENT: IFP 30 Minutes Surface blow for 2 minutes then dead
ISI 30 Minutes No blow back
FFP 30 Minutes Few bubbles at open then dead
FSI 30 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1627.39	89.88	Initial Hydro-static
1	16.29	89.19	Open To Flow (1)
30	20.97	90.30	Shut-In(1)
60	647.31	91.34	End Shut-In(1)
61	22.45	91.13	Open To Flow (2)
91	25.28	91.96	Shut-In(2)
121	564.90	92.88	End Shut-In(2)
122	1611.81	93.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w/oil spotts in tool/ Mud 100%	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64814

DST#: 2

Test Start: 2017.03.25 @ 16:13:00

Tool Information

Drill Pipe:	Length: 3262.00 ft	Diameter: 3.90 inches	Volume: 48.20 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3298.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.70 ft			
Tool Length:	79.70 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
Shut-In Tool	5.00			3275.00	
Hydraulic tool	5.00			3280.00	
Jars	6.00			3286.00	
Safety Joint	2.00			3288.00	
Top Packer	5.00			3293.00	
Packer	5.00			3298.00	28.00 Bottom Of Top Packer
Anchor	13.00			3311.00	
Change Over Sub	1.00			3312.00	
Drill Pipe	31.70			3343.70	
Change Over Sub	1.00			3344.70	
Recorder	1.00	8648	Inside	3345.70	
Recorder	1.00	8960	Outside	3346.70	
Bullnose	3.00			3349.70	51.70 Anchor Tool

Total Tool Length: 79.70



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64814

DST#: 2

Test Start: 2017.03.25 @ 16:13:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 7.18 in³

Resistivity: ohm.m

Salinity: 4100.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud w /oil spotts in tool/ Mud 100%	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

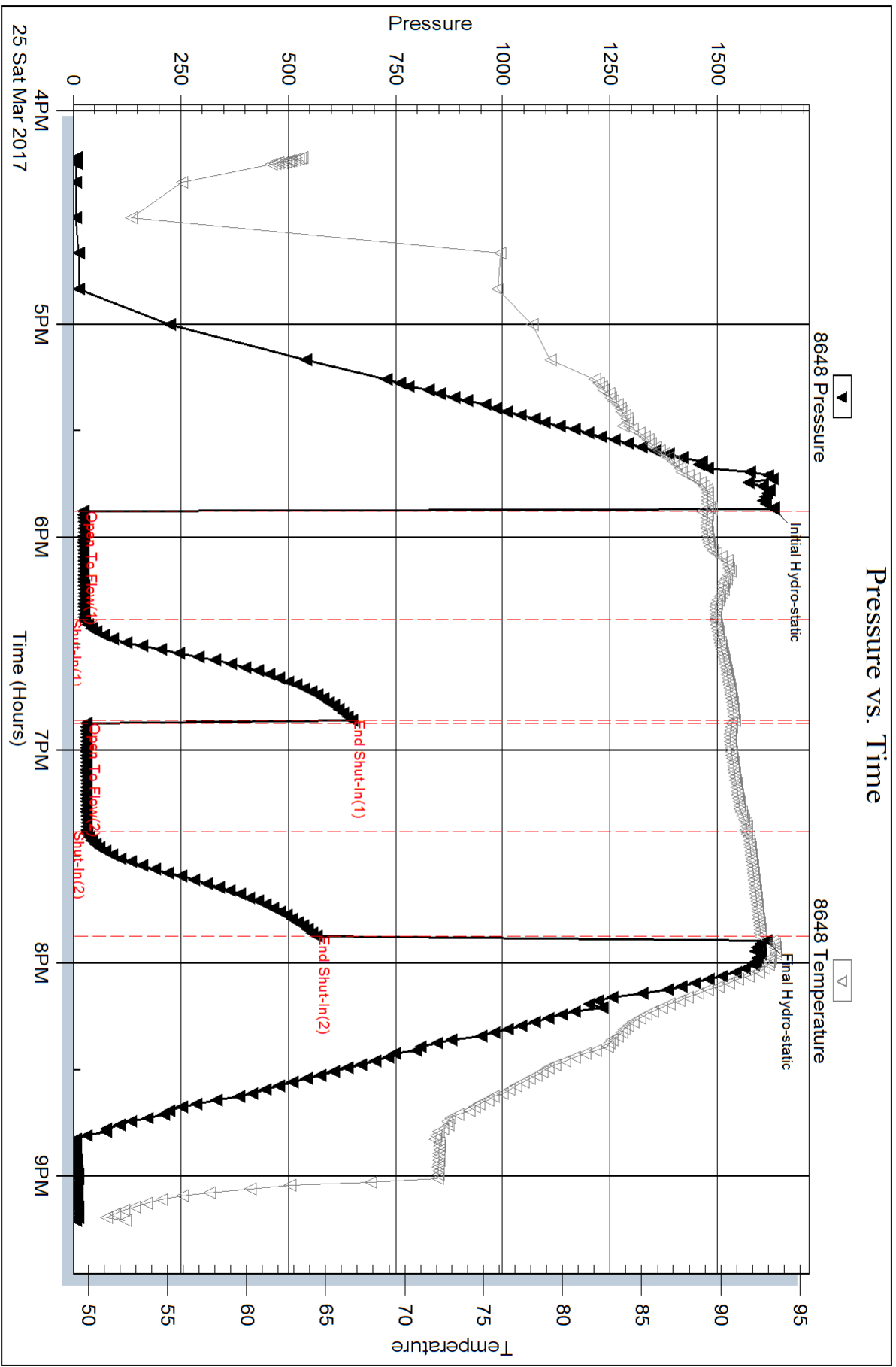
Num Gas Bombs: 0

Serial #:

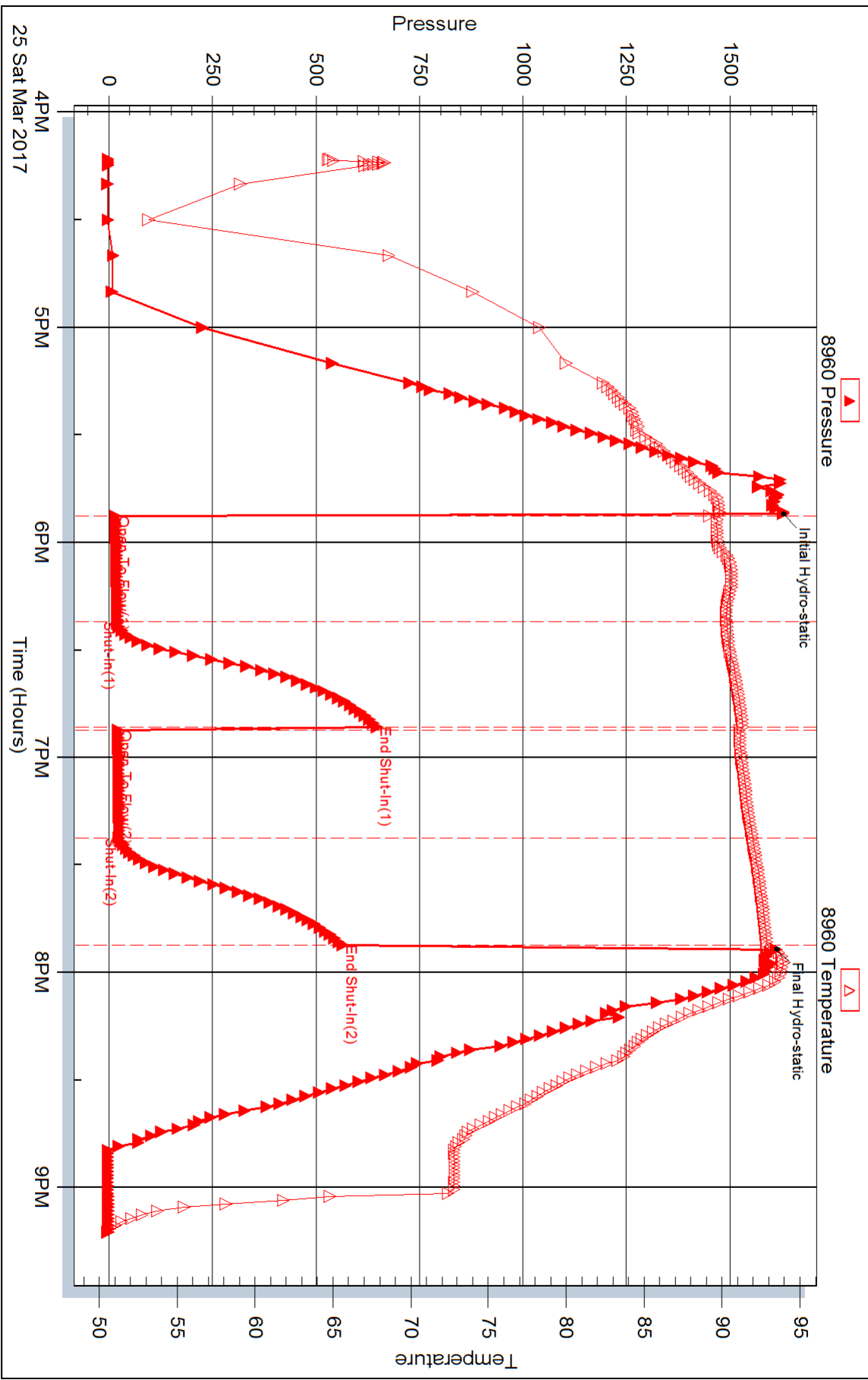
Laboratory Name:

Laboratory Location:

Recovery Comments:



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S Voss Road
Suite 600
Houston, TX 77057+2641

ATTN: Wes Hansen

Jones #1-25

25-10S-18W Rooks,KS

Start Date: 2017.03.26 @ 21:22:00

End Date: 2017.03.27 @ 04:03:30

Job Ticket #: 64815 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.29 @ 13:21:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64815

DST#: 3

Test Start: 2017.03.26 @ 21:22:00

GENERAL INFORMATION:

Formation: **LKC E-1**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:04:30

Time Test Ended: 04:03:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3346.00 ft (KB) To 3450.00 ft (KB) (TVD)

Reference Elevations: 2042.00 ft (KB)

Total Depth: 3450.00 ft (KB) (TVD)

2037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press@RunDepth: 101.46 psig @ 3446.35 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.26

End Date:

2017.03.27

Last Calib.: 2017.03.26

Start Time: 21:22:05

End Time:

04:03:29

Time On Btm: 2017.03.26 @ 23:03:00

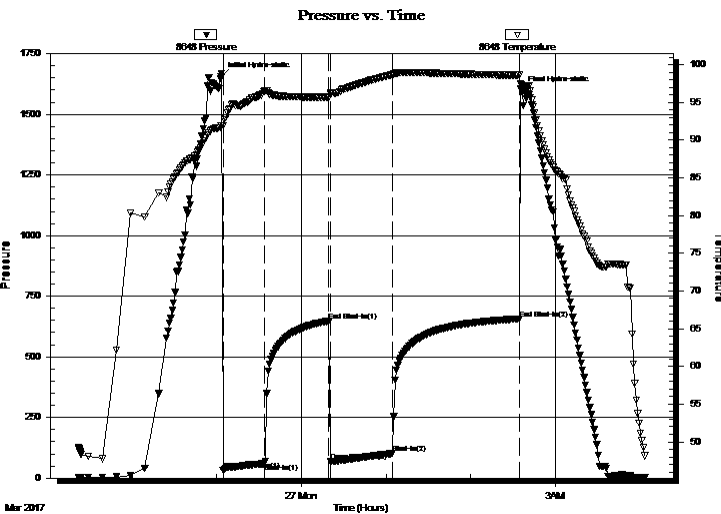
Time Off Btm: 2017.03.27 @ 02:36:00

TEST COMMENT: IFP 30 Minutes Blow built to 6"

ISI 45 Minutes No blow back

FFP 45 Minutes Blow built to 4"

FSI 90 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1653.61	91.81	Initial Hydro-static
2	32.99	91.91	Open To Flow (1)
31	61.04	96.48	Shut-In(1)
77	647.37	95.69	End Shut-In(1)
78	68.91	96.32	Open To Flow (2)
122	101.46	98.65	Shut-In(2)
212	656.65	98.58	End Shut-In(2)
213	1597.50	97.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
165.00	MW Mud 10% Water 90%	2.04

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64815

DST#: 3

Test Start: 2017.03.26 @ 21:22:00

GENERAL INFORMATION:

Formation: **LKC E-1**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:04:30

Time Test Ended: 04:03:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3346.00 ft (KB) To 3450.00 ft (KB) (TVD)

Reference Elevations: 2042.00 ft (KB)

Total Depth: 3450.00 ft (KB) (TVD)

2037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8960

Outside

Press@RunDepth: 653.02 psig @ 3447.35 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.26

End Date:

2017.03.27

Last Calib.:

2017.03.26

Start Time: 21:22:05

End Time:

04:03:29

Time On Btm:

2017.03.26 @ 23:03:00

Time Off Btm:

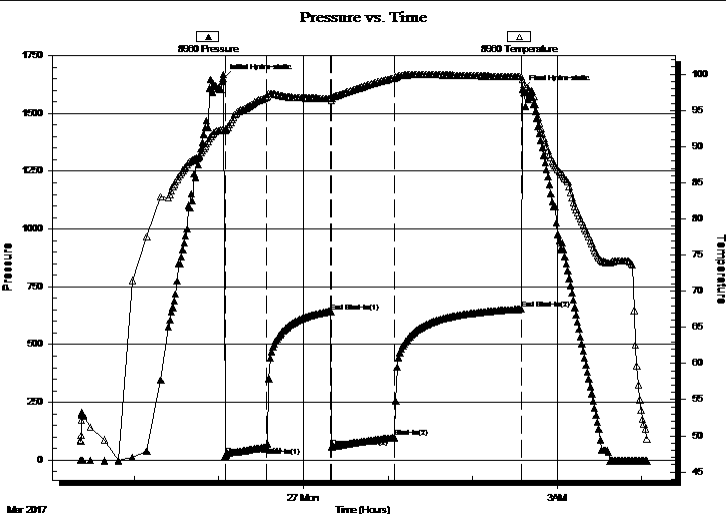
2017.03.27 @ 02:35:30

TEST COMMENT: IFP 30 Minutes Blow built to 6"

ISI 45 Minutes No blow back

FFP 45 Minutes Blow built to 4"

FSI 90 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1650.18	92.41	Initial Hydro-static
2	22.19	92.42	Open To Flow (1)
31	55.89	96.89	Shut-In(1)
77	643.09	96.66	End Shut-In(1)
77	58.39	96.37	Open To Flow (2)
122	97.51	99.49	Shut-In(2)
212	653.02	99.65	End Shut-In(2)
213	1604.65	99.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
165.00	MW Mud 10% Water 90%	2.04

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64815

DST#: 3

Test Start: 2017.03.26 @ 21:22:00

Tool Information

Drill Pipe:	Length: 3294.00 ft	Diameter: 3.80 inches	Volume: 46.21 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 46000.00 lb
			<u>Total Volume: 46.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3346.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	104.35 ft			
Tool Length:	132.35 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut-In Tool	5.00			3323.00	
Hydraulic tool	5.00			3328.00	
Jars	6.00			3334.00	
Safety Joint	2.00			3336.00	
Top Packer	5.00			3341.00	
Packer	5.00			3346.00	28.00 Bottom Of Top Packer
Anchor	34.00			3380.00	
Change Over Sub	1.00			3381.00	
Drill Pipe	63.35			3444.35	
Change Over Sub	1.00			3445.35	
Recorder	1.00	8648	Inside	3446.35	
Recorder	1.00	8960	Outside	3447.35	
Bullnose	3.00			3450.35	104.35 Anchor Tool

Total Tool Length: 132.35



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64815

DST#: 3

Test Start: 2017.03.26 @ 21:22:00

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:

51000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
165.00	MW Mud 10% Water 90%	2.041

Total Length: 165.00 ft Total Volume: 2.041 bbl

Num Fluid Samples: 0

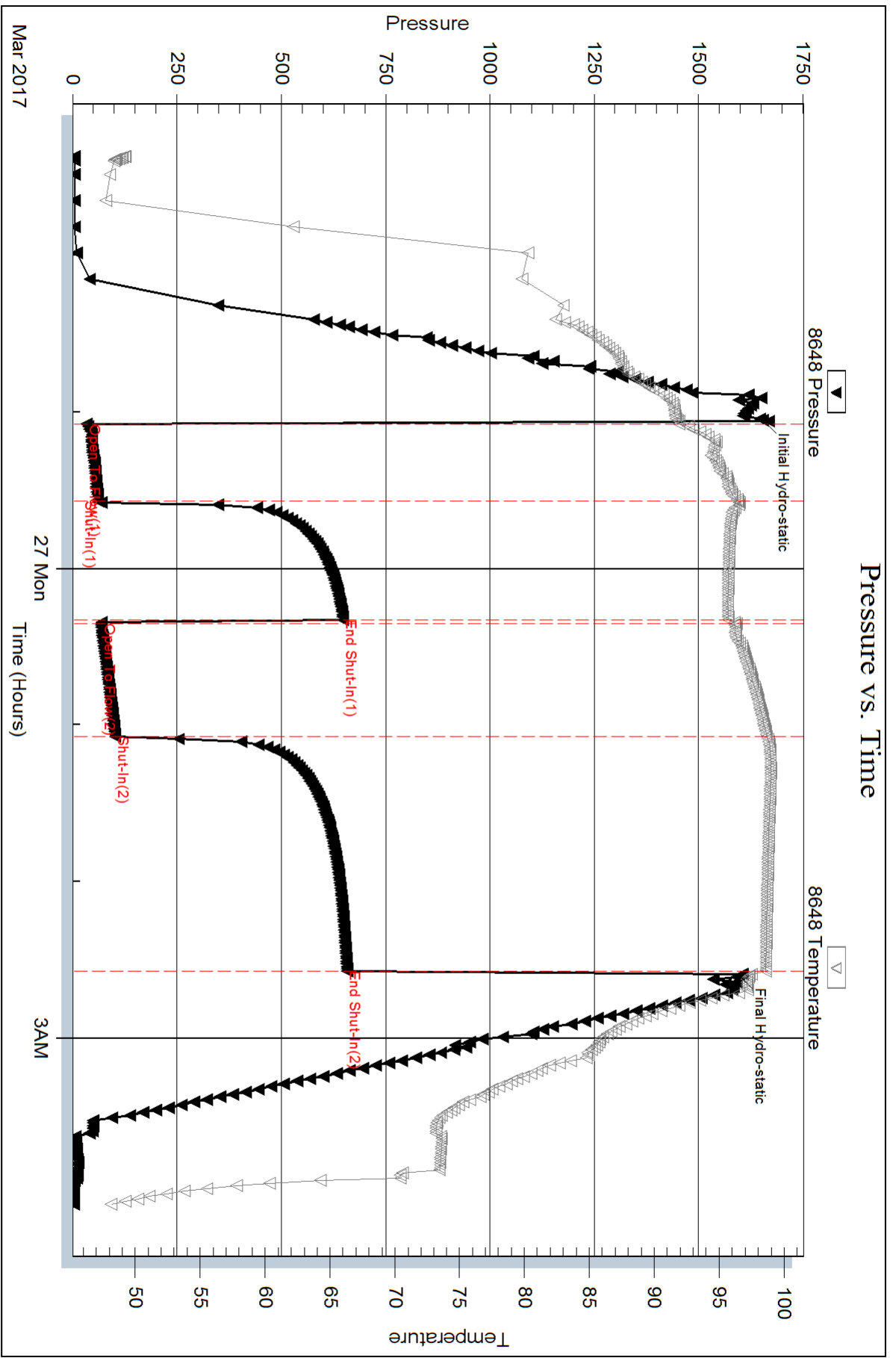
Num Gas Bombs: 0

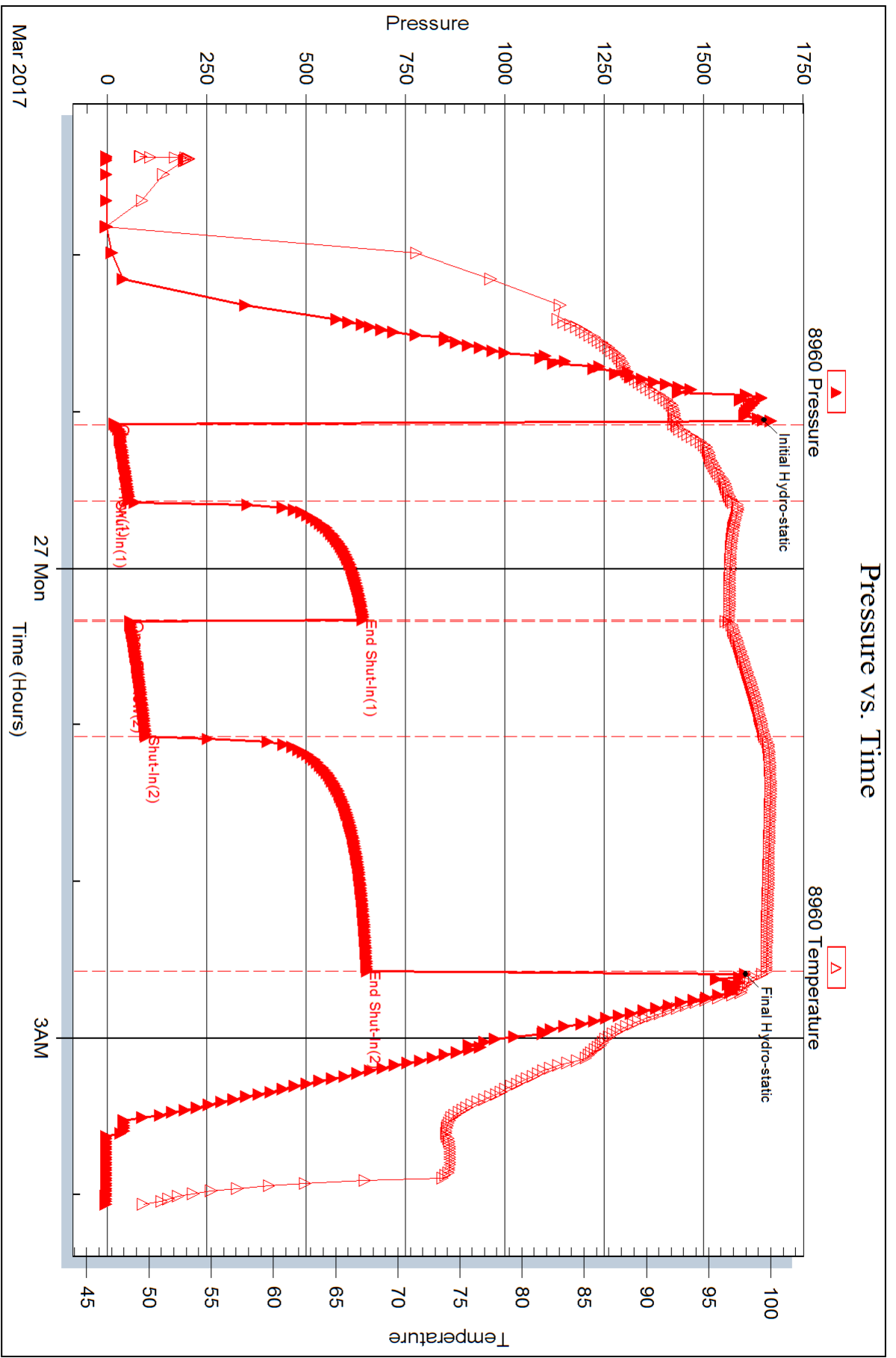
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .204 ohms @ 51 deg







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S Voss Road
Suite 600
Houston, TX 77057+2641

ATTN: Wes Hansen

Jones #1-25

25-10S-18W Rooks,KS

Start Date: 2017.03.27 @ 00:32:00

End Date: 2017.03.27 @ 03:35:00

Job Ticket #: 64816 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.03.29 @ 13:20:49



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64816

DST#: 4

Test Start: 2017.03.27 @ 00:32:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 03:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3448.00 ft (KB) To 3480.00 ft (KB) (TVD)

Reference Elevations: 2042.00 ft (KB)

Total Depth: 3480.00 ft (KB) (TVD)

2037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8648 Inside

Press@RunDepth: psig @ 3476.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.27

End Date:

2017.03.27

Last Calib.: 2017.03.27

Start Time: 00:32:05

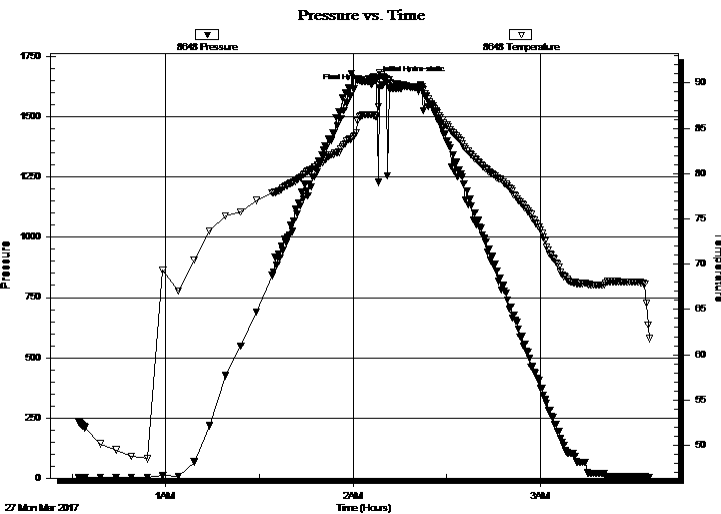
End Time:

03:35:00

Time On Btm: 2017.03.27 @ 02:07:30

Time Off Btm: 2017.03.27 @ 02:12:00

TEST COMMENT: Packer Failure/ pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.65	86.32	Initial Hydro-static
5	1618.96	90.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mud 100%	2.25

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64816

DST#: 4

Test Start: 2017.03.27 @ 00:32:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 03:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3448.00 ft (KB) To 3480.00 ft (KB) (TVD)

Reference Elevations: 2042.00 ft (KB)

Total Depth: 3480.00 ft (KB) (TVD)

2037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 5.00 ft

Serial #: 8960 Outside

Press@RunDepth: psig @ 3477.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.27

End Date:

2017.03.27

Last Calib.: 2017.03.27

Start Time: 00:32:05

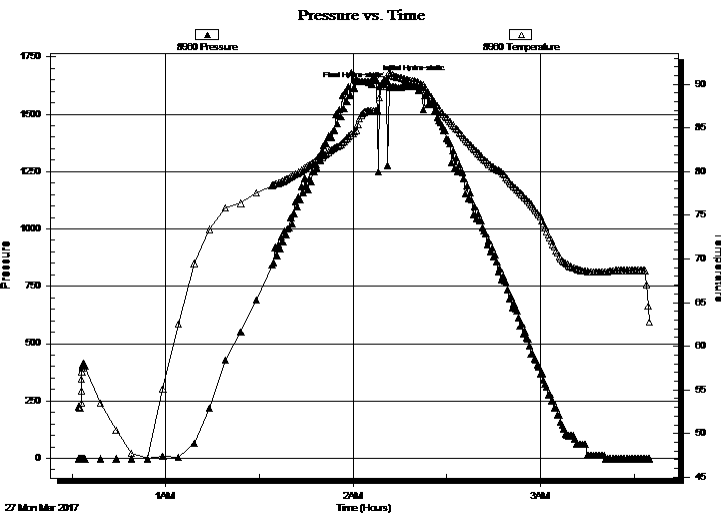
End Time:

03:35:00

Time On Btm: 2017.03.27 @ 02:07:30

Time Off Btm: 2017.03.27 @ 02:12:00

TEST COMMENT: Packer Failure/ pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1649.45	86.98	Initial Hydro-static
5	1618.65	91.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mud 100%	2.25

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64816

DST#: 4

Test Start: 2017.03.27 @ 00:32:00

Tool Information

Drill Pipe:	Length: 3421.00 ft	Diameter: 3.80 inches	Volume: 47.99 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3448.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut-In Tool	5.00			3426.00	
Hydraulic tool	5.00			3431.00	
Jars	5.00			3436.00	
Safety Joint	2.00			3438.00	
Top Packer	5.00			3443.00	
Packer	5.00			3448.00	27.00 Bottom Of Top Packer
Anchor	27.00			3475.00	
Recorder	1.00	8648	Inside	3476.00	
Recorder	1.00	8960	Outside	3477.00	
Bullnose	3.00			3480.00	32.00 Anchor Tool
Total Tool Length:	59.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64816

DST#: 4

Test Start: 2017.03.27 @ 00:32:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.38 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Mud 100%	2.252

Total Length: 180.00 ft Total Volume: 2.252 bbl

Num Fluid Samples: 0

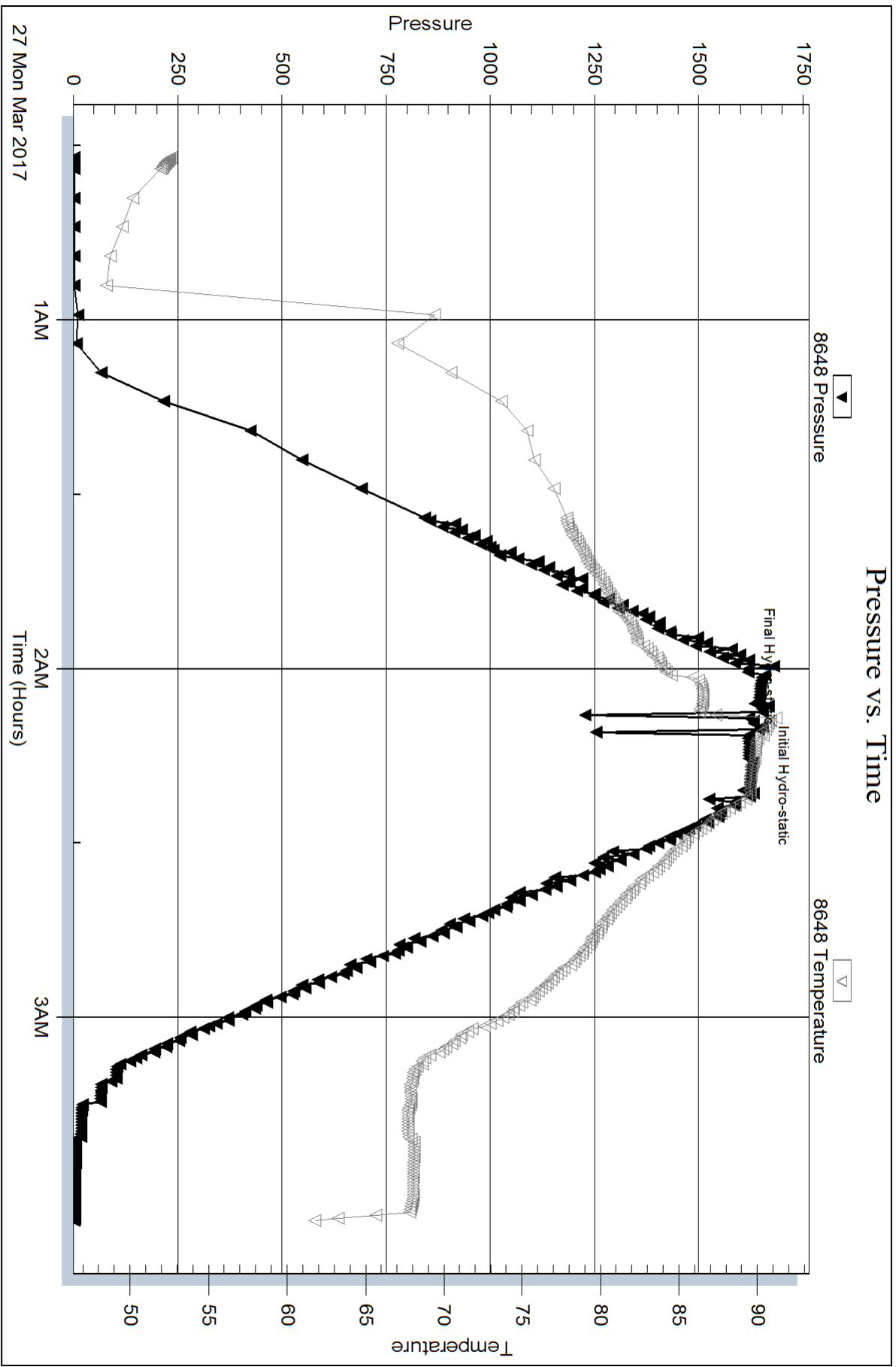
Num Gas Bombs: 0

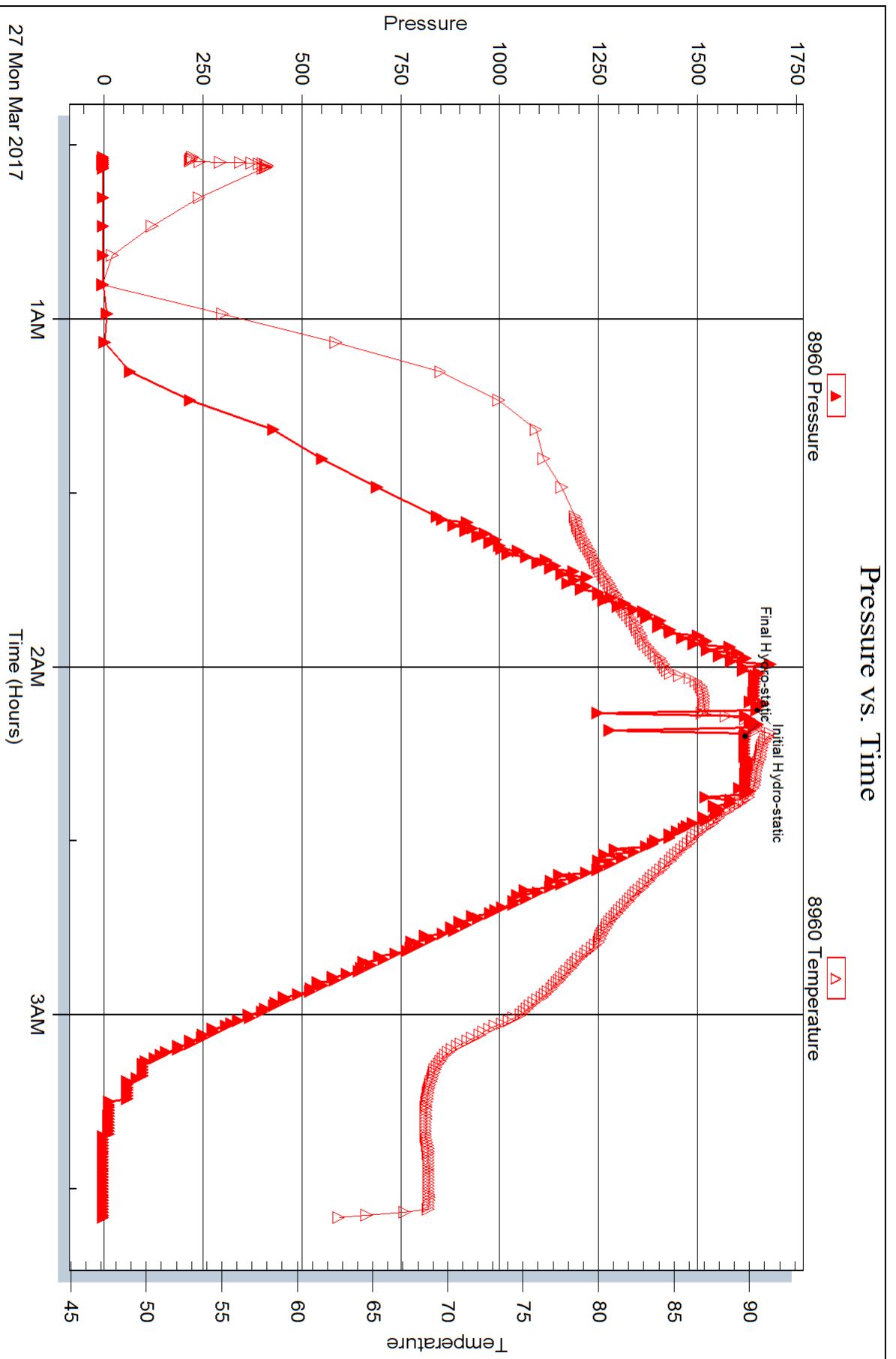
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S Voss Road
Suite 600
Houston, TX 77057+2641

ATTN: Wes Hansen

Jones #1-25

25-10S-18W Rooks,KS

Start Date: 2017.03.27 @ 03:47:00

End Date: 2017.03.27 @ 06:44:00

Job Ticket #: 64817 DST #: 5

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

Printed: 2017.03.29 @ 13:20:27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64817

DST#: 5

Test Start: 2017.03.27 @ 03:47:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 06:44:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3444.00 ft (KB) To 3480.00 ft (KB) (TVD)

Reference Elevations: 2042.00 ft (KB)

Total Depth: 3480.00 ft (KB) (TVD)

2037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press@RunDepth: psig @ 3476.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.27

End Date:

2017.03.27

Last Calib.: 2017.03.27

Start Time: 03:47:05

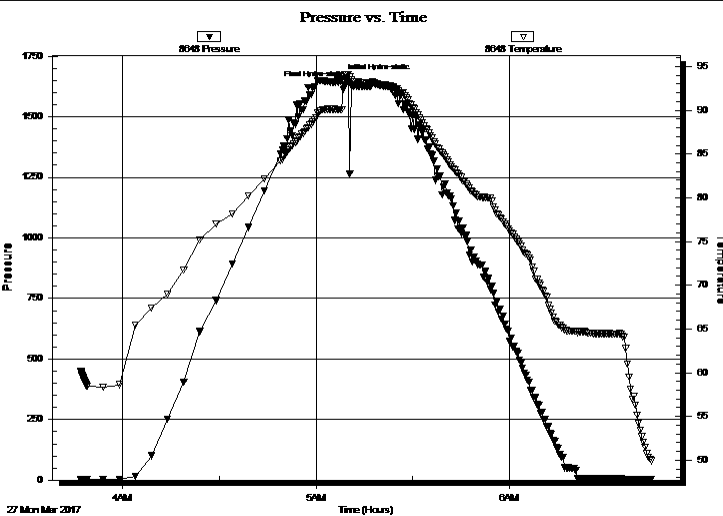
End Time:

06:44:00

Time On Btm: 2017.03.27 @ 05:08:00

Time Off Btm: 2017.03.27 @ 05:11:00

TEST COMMENT: Packer failure pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.89	90.11	Initial Hydro-static
3	1627.92	93.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mud 100%	2.25

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64817

DST#: 5

Test Start: 2017.03.27 @ 03:47:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 06:44:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3444.00 ft (KB) To 3480.00 ft (KB) (TVD)

Reference Elevations: 2042.00 ft (KB)

Total Depth: 3480.00 ft (KB) (TVD)

2037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8960 Outside

Press@RunDepth: psig @ 3477.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.27

End Date:

2017.03.27

Last Calib.:

2017.03.27

Start Time:

03:47:05

End Time:

06:44:00

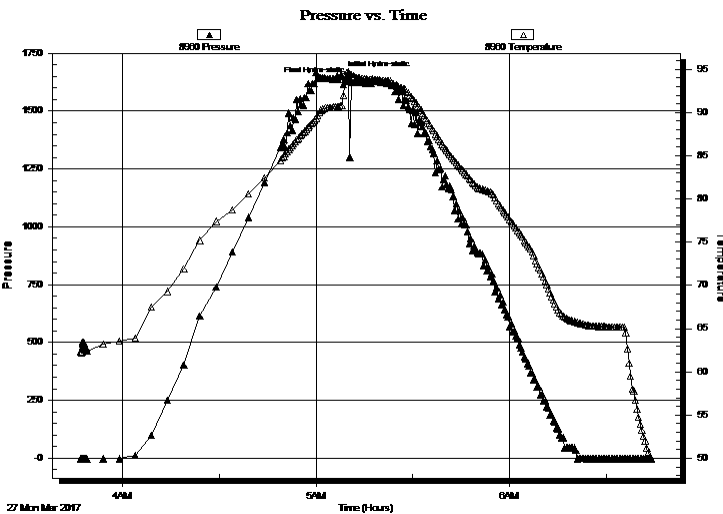
Time On Btm:

2017.03.27 @ 05:08:00

Time Off Btm:

2017.03.27 @ 05:11:00

TEST COMMENT: Packer failure pull test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.26	90.82	Initial Hydro-static
3	1626.72	94.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Mud 100%	2.25

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64817

DST#: 5

Test Start: 2017.03.27 @ 03:47:00

Tool Information

Drill Pipe:	Length: 3421.00 ft	Diameter: 3.80 inches	Volume: 47.99 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 48.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3444.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3422.00	
Hydraulic tool	5.00			3427.00	
Jars	5.00			3432.00	
Safety Joint	2.00			3434.00	
Top Packer	5.00			3439.00	
Packer	5.00			3444.00	27.00 Bottom Of Top Packer
Anchor	31.00			3475.00	
Recorder	1.00	8648	Inside	3476.00	
Recorder	1.00	8960	Outside	3477.00	
Bullnose	3.00			3480.00	36.00 Anchor Tool
Total Tool Length:	63.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64817

DST#: 5

Test Start: 2017.03.27 @ 03:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 7.38 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Mud 100%	2.252

Total Length: 180.00 ft Total Volume: 2.252 bbl

Num Fluid Samples: 0

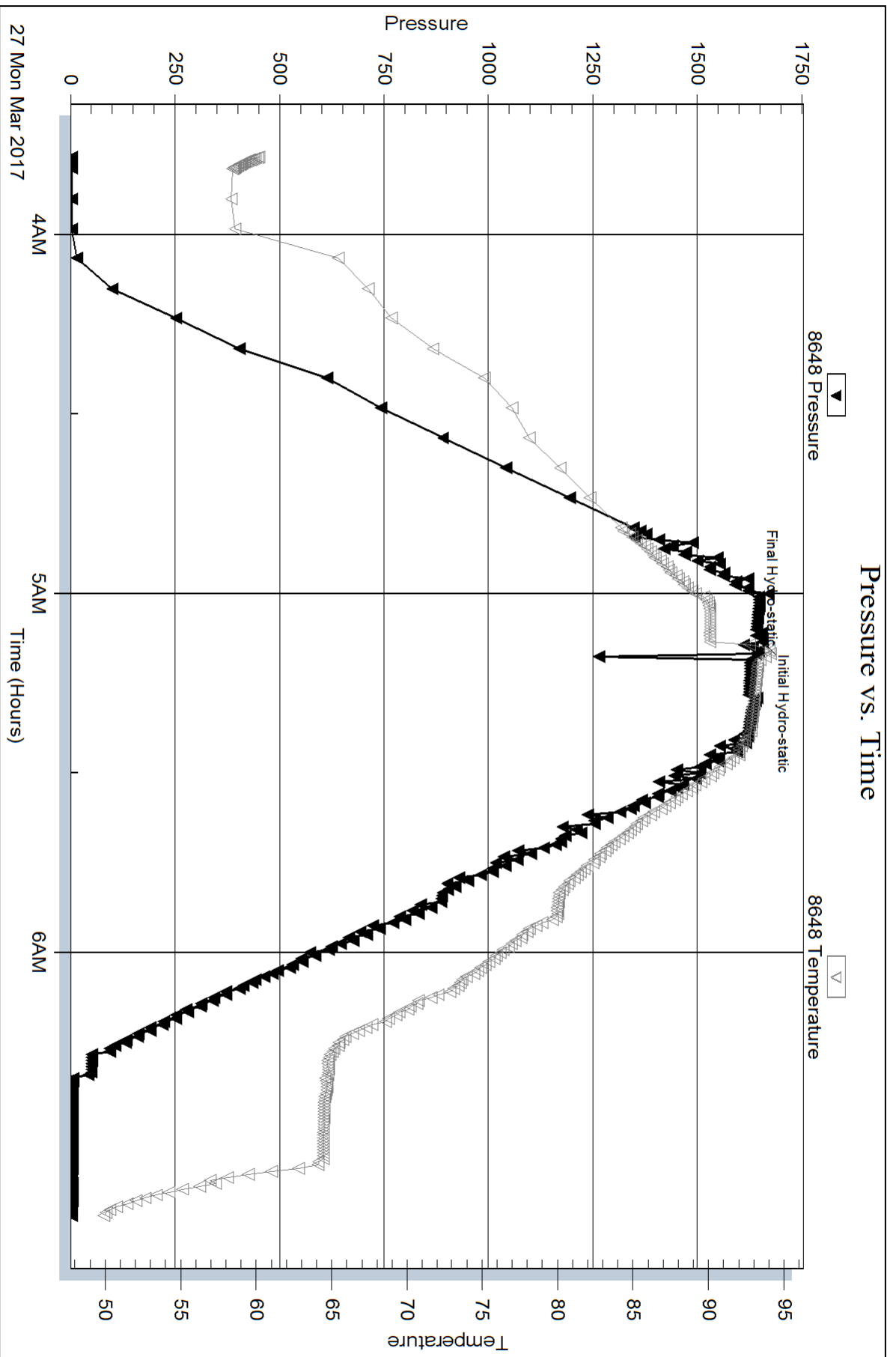
Num Gas Bombs: 0

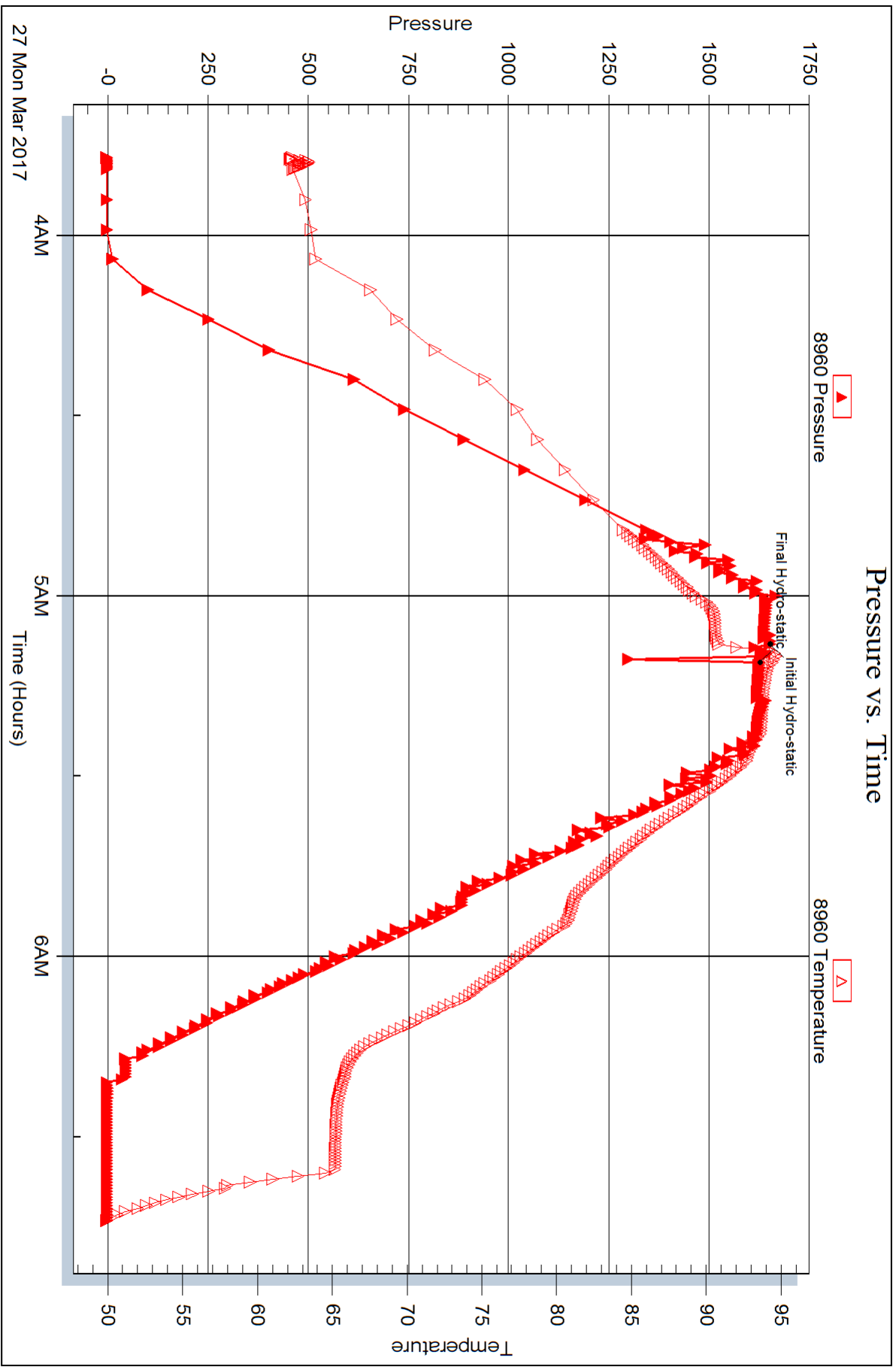
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S Voss Road
Suite 600
Houston, TX 77057+2641

ATTN: Wes Hansen

Jones #1-25

25-10S-18W Rooks,KS

Start Date: 2017.03.27 @ 17:47:00

End Date: 2017.03.28 @ 00:14:00

Job Ticket #: 64818 DST #: 6

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

Printed: 2017.03.29 @ 13:18:48



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64818

DST#: 6

Test Start: 2017.03.27 @ 17:47:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:11:00

Time Test Ended: 00:14:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3615.00 ft (KB) To 3647.00 ft (KB) (TVD)

Reference Elevations: 2042.00 ft (KB)

Total Depth: 3647.00 ft (KB) (TVD)

2037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press@RunDepth: 1143.36 psig @ 3643.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.27

End Date:

2017.03.28

Last Calib.:

2017.03.28

Start Time:

17:47:05

End Time:

00:13:59

Time On Btm:

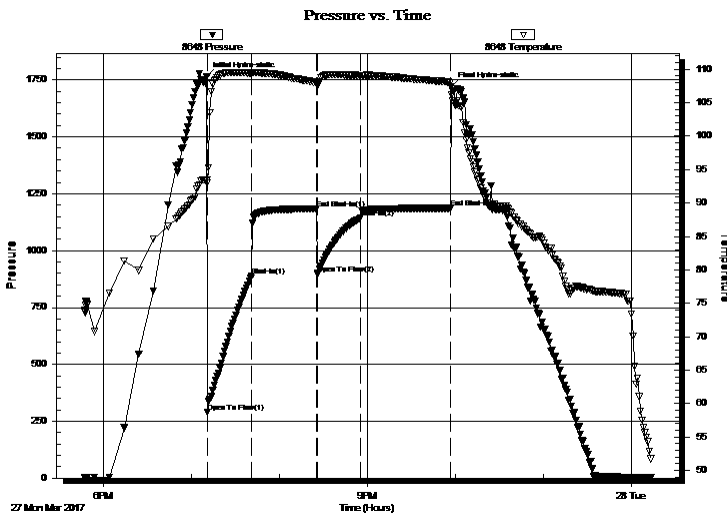
2017.03.27 @ 19:10:30

Time Off Btm:

2017.03.27 @ 21:57:30

TEST COMMENT: IFP 30 Minutes BOB in 1 minute
ISI 45 Minutes No blow back
FFP 30 Minutes BOB in 1 minute 15 seconds
FSI 60 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1765.60	93.48	Initial Hydro-static
1	290.50	93.03	Open To Flow (1)
31	887.31	109.42	Shut-In(1)
75	1184.26	107.95	End Shut-In(1)
76	898.23	107.76	Open To Flow (2)
105	1143.36	109.08	Shut-In(2)
166	1186.53	108.07	End Shut-In(2)
167	1719.54	106.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2480.00	MW Mud 5% Water 95%	34.51

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64818

DST#: 6

Test Start: 2017.03.27 @ 17:47:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:11:00

Time Test Ended: 00:14:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3615.00 ft (KB) To 3647.00 ft (KB) (TVD)

Reference Elevations: 2042.00 ft (KB)

Total Depth: 3647.00 ft (KB) (TVD)

2037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8960 Outside

Press@RunDepth: 1182.94 psig @ 3644.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.27

End Date:

2017.03.28

Last Calib.:

2017.03.28

Start Time:

17:47:05

End Time:

00:13:59

Time On Btm:

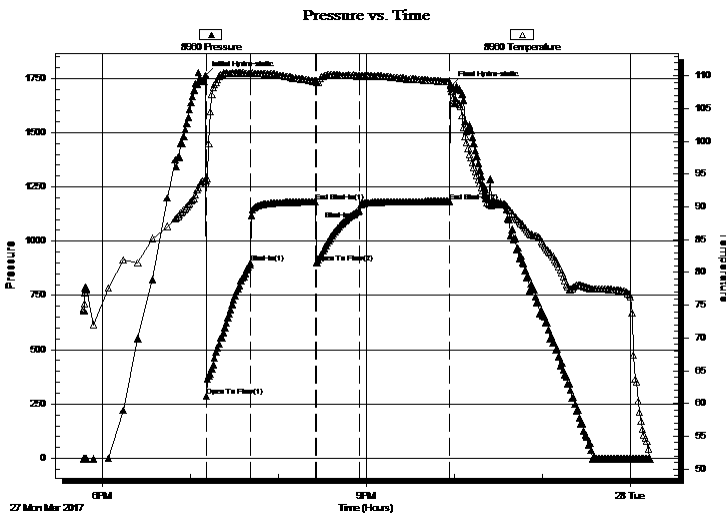
2017.03.27 @ 19:10:30

Time Off Btm:

2017.03.27 @ 21:58:00

TEST COMMENT: IFP 30 Minutes BOB in 1 minute
ISI 45 Minutes No blow back
FFP 30 Minutes BOB in 1 minute 15 seconds
FSI 60 Minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1761.51	94.06	Initial Hydro-static
1	286.31	93.56	Open To Flow (1)
31	898.27	110.38	Shut-In(1)
75	1181.06	109.14	End Shut-In(1)
76	897.94	108.96	Open To Flow (2)
105	1140.25	110.06	Shut-In(2)
166	1182.94	109.06	End Shut-In(2)
168	1715.77	108.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2480.00	MW Mud 5% Water 95%	34.51

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64818

DST#: 6

Test Start: 2017.03.27 @ 17:47:00

Tool Information

Drill Pipe:	Length: 3578.00 ft	Diameter: 3.80 inches	Volume: 50.19 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 50.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3615.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut-In Tool	5.00			3593.00	
Hydraulic tool	5.00			3598.00	
Jars	5.00			3603.00	
Safety Joint	2.00			3605.00	
Top Packer	5.00			3610.00	
Packer	5.00			3615.00	27.00 Bottom Of Top Packer
Anchor	27.00			3642.00	
Recorder	1.00	8648	Inside	3643.00	
Recorder	1.00	8960	Outside	3644.00	
Bullnose	3.00			3647.00	32.00 Anchor Tool
Total Tool Length:	59.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64818

DST#: 6

Test Start: 2017.03.27 @ 17:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: 27000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2480.00	MW Mud 5% Water 95%	34.515

Total Length: 2480.00 ft Total Volume: 34.515 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

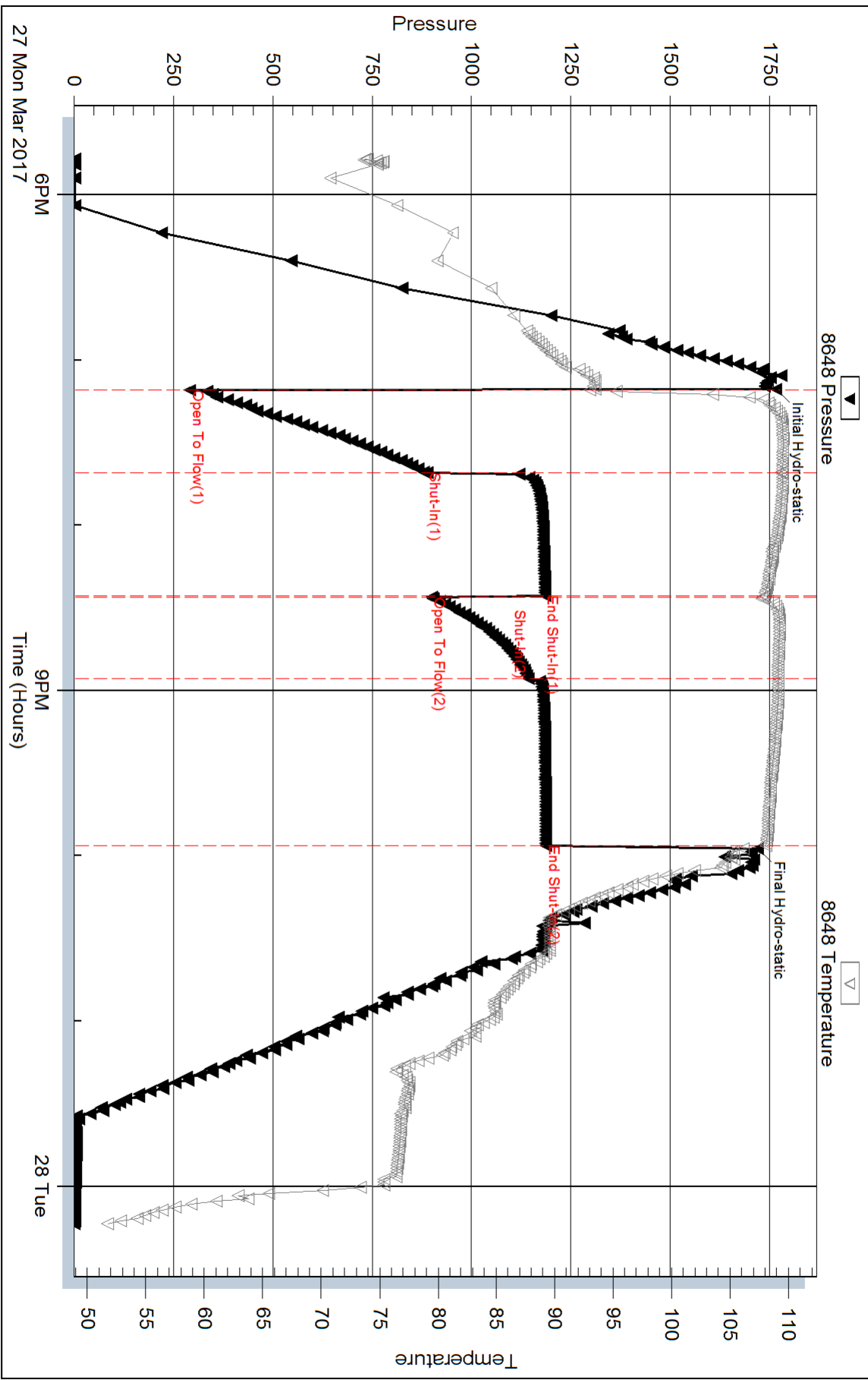
Serial #:

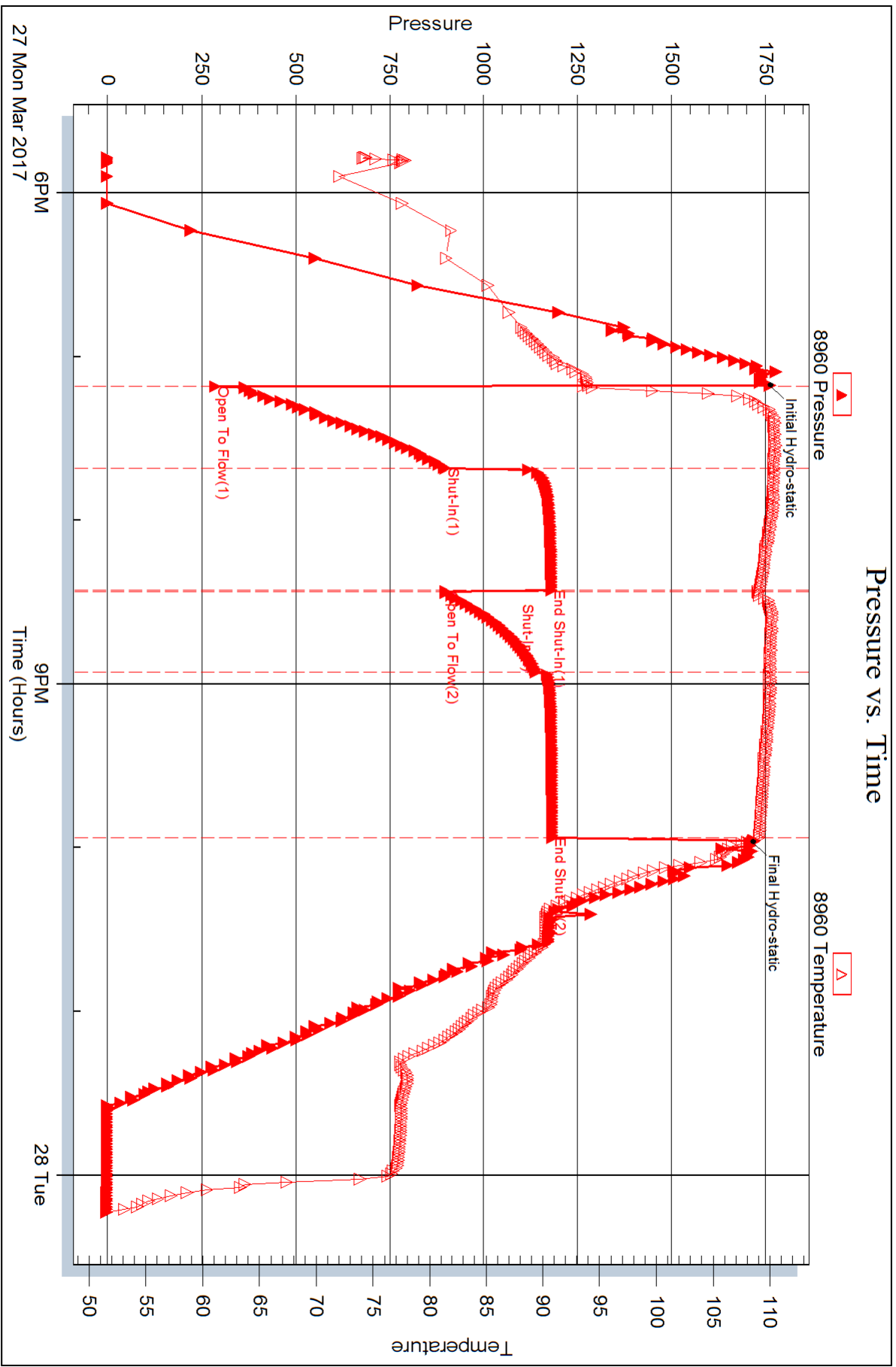
Laboratory Name:

Laboratory Location:

Recovery Comments: Recovery Resistivity .363 ohms @ 47 deg

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S Voss Road
Suite 600
Houston, TX 77057+2641

ATTN: Wes Hansen

Jones #1-25

25-10S-18W Rooks,KS

Start Date: 2017.03.28 @ 13:14:00

End Date: 2017.03.28 @ 18:57:00

Job Ticket #: 64819 DST #: 7

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

Printed: 2017.03.29 @ 13:30:58



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64819

DST#: 7

Test Start: 2017.03.28 @ 13:14:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:35:00

Time Test Ended: 18:57:00

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3437.00 ft (KB) To 3470.00 ft (KB) (TVD)

Reference Elevations: 2042.00 ft (KB)

Total Depth: 3698.00 ft (KB) (TVD)

2037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press@RunDepth: 1111.12 psig @ 3464.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.28

End Date:

2017.03.28

Last Calib.:

2017.03.28

Start Time: 13:14:05

End Time:

18:56:59

Time On Btm:

2017.03.28 @ 14:34:00

Time Off Btm:

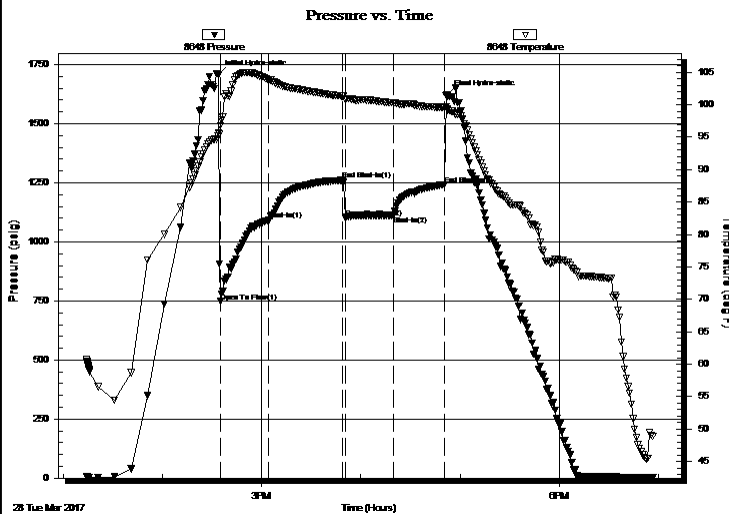
2017.03.28 @ 16:52:00

TEST COMMENT: IFP 30 Minutes BOB in 30 seconds

ISI 45 Minutes No blow back

FFP 30 Minutes Blow built to 7 1/2" in 8 minutes then died by 20 minutes

FSI 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.99	95.67	Initial Hydro-static
1	747.57	96.78	Open To Flow (1)
30	1091.24	103.89	Shut-In(1)
75	1260.83	101.34	End Shut-In(1)
77	1101.23	100.80	Open To Flow (2)
106	1111.12	100.29	Shut-In(2)
137	1241.78	99.57	End Shut-In(2)
138	1622.98	99.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2510.00	MW Mud 10% Water 90%	34.94

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64819

DST#: 7

Test Start: 2017.03.28 @ 13:14:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:35:00

Time Test Ended: 18:57:00

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3437.00 ft (KB) To 3470.00 ft (KB) (TVD)

Reference Elevations: 2042.00 ft (KB)

Total Depth: 3698.00 ft (KB) (TVD)

2037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354 Outside

Press@RunDepth: 1239.43 psig @ 3464.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.28

End Date:

2017.03.28

Last Calib.:

2017.03.28

Start Time: 13:18:05

End Time:

18:56:29

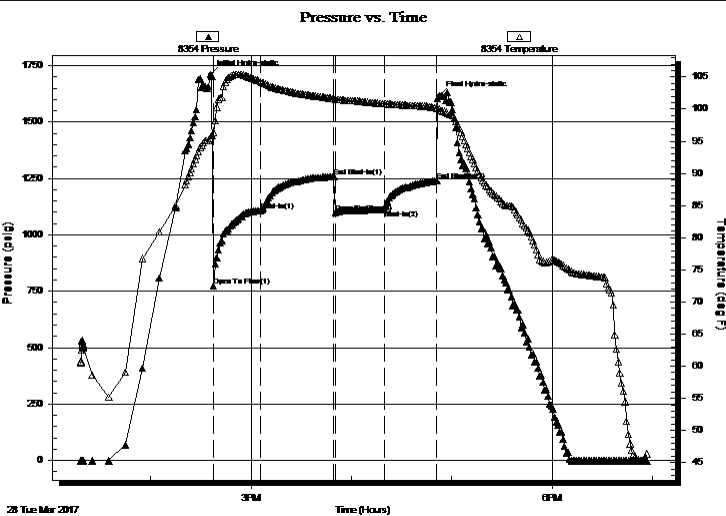
Time On Btm:

2017.03.28 @ 14:35:30

Time Off Btm:

2017.03.28 @ 16:52:30

TEST COMMENT: IFP 30 Minutes BOB in 30 seconds
ISI 45 Minutes No blow back
FFP 30 Minutes Blow built to 7 1/2" in 8 minutes then died by 20 minutes
FSI 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.83	95.40	Initial Hydro-static
2	773.35	96.43	Open To Flow (1)
30	1107.52	104.33	Shut-In(1)
74	1258.79	101.64	End Shut-In(1)
75	1098.42	101.49	Open To Flow (2)
104	1110.07	100.84	Shut-In(2)
136	1239.43	100.18	End Shut-In(2)
137	1617.19	100.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2510.00	MW Mud 10% Water 90%	34.94

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64819

DST#: 7

Test Start: 2017.03.28 @ 13:14:00

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:35:00

Time Test Ended: 18:57:00

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: 3437.00 ft (KB) To 3470.00 ft (KB) (TVD)

Reference Elevations: 2042.00 ft (KB)

Total Depth: 3698.00 ft (KB) (TVD)

2037.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8960 Below (Straddle)

Press@RunDepth: psig @ 3471.35 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.28

End Date:

2017.03.28

Last Calib.:

2017.03.28

Start Time: 13:14:05

End Time:

18:56:59

Time On Btm:

2017.03.28 @ 14:34:00

Time Off Btm:

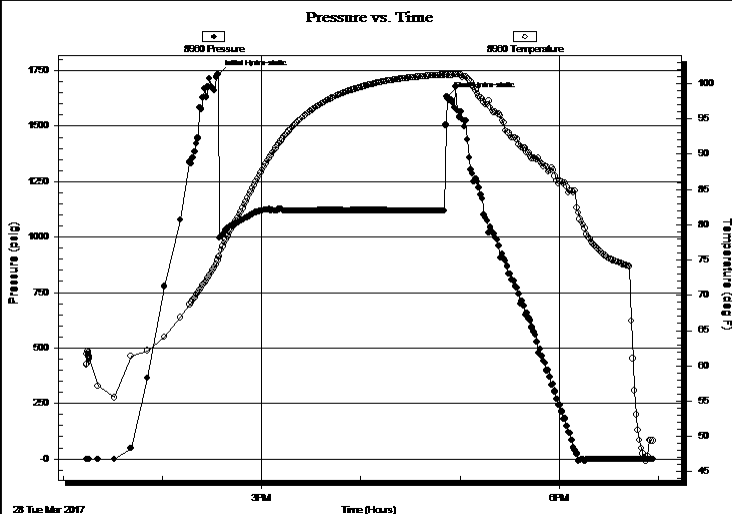
2017.03.28 @ 16:52:00

TEST COMMENT: IFP 30 Minutes BOB in 30 seconds

ISI 45 Minutes No blow back

FFP 30 Minutes Blow built to 7 1/2" in 8 minutes then died by 20 minutes

FSI 30 Minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1732.96	75.45	Initial Hydro-static
138	1632.91	101.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2510.00	MW Mud 10% Water 90%	34.94

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64819

DST#: 7

Test Start: 2017.03.28 @ 13:14:00

Tool Information

Drill Pipe:	Length: 3392.00 ft	Diameter: 3.80 inches	Volume: 47.58 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 47.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.75 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3437.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	3696.93 ft			
Interval between Packers:	259.93 ft			
Tool Length:	283.68 ft			
Number of Packers:	3	Diameter: 6.74 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut-In Tool	5.00			3418.25	
Hydraulic tool	5.00			3423.25	
Jars	5.00			3428.25	
Safety Joint	2.00			3430.25	
Packer	5.00			3435.25	23.75 Bottom Of Top Packer
Packer	1.75			3437.00	
Perforations	27.00			3464.00	
Recorder	0.00	8648	Inside	3464.00	
Recorder	0.00	8354	Outside	3464.00	
Blank Off Sub	1.02			3465.02	
Packer (Interval Side)	3.50			3468.52	
Packer (Tail Side)	1.75			3470.27	
Change Over Sub	1.08			3471.35	
Recorder	0.00	8960	Below	3471.35	
Drill Pipe	221.46			3692.81	
Change Over Sub	1.12			3693.93	
Bullnose	3.00			3696.93	259.93 Bottom Packers & Anchor
Total Tool Length:	283.68				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

25-10S-18W Rooks,KS

1616 S Voss Road
Suite 600
Houston, TX 77057+2641
ATTN: Wes Hansen

Jones #1-25

Job Ticket: 64819

DST#: 7

Test Start: 2017.03.28 @ 13:14:00

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:

25000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2510.00	MW Mud 10% Water 90%	34.935

Total Length: 2510.00 ft Total Volume: 34.935 bbl

Num Fluid Samples: 0

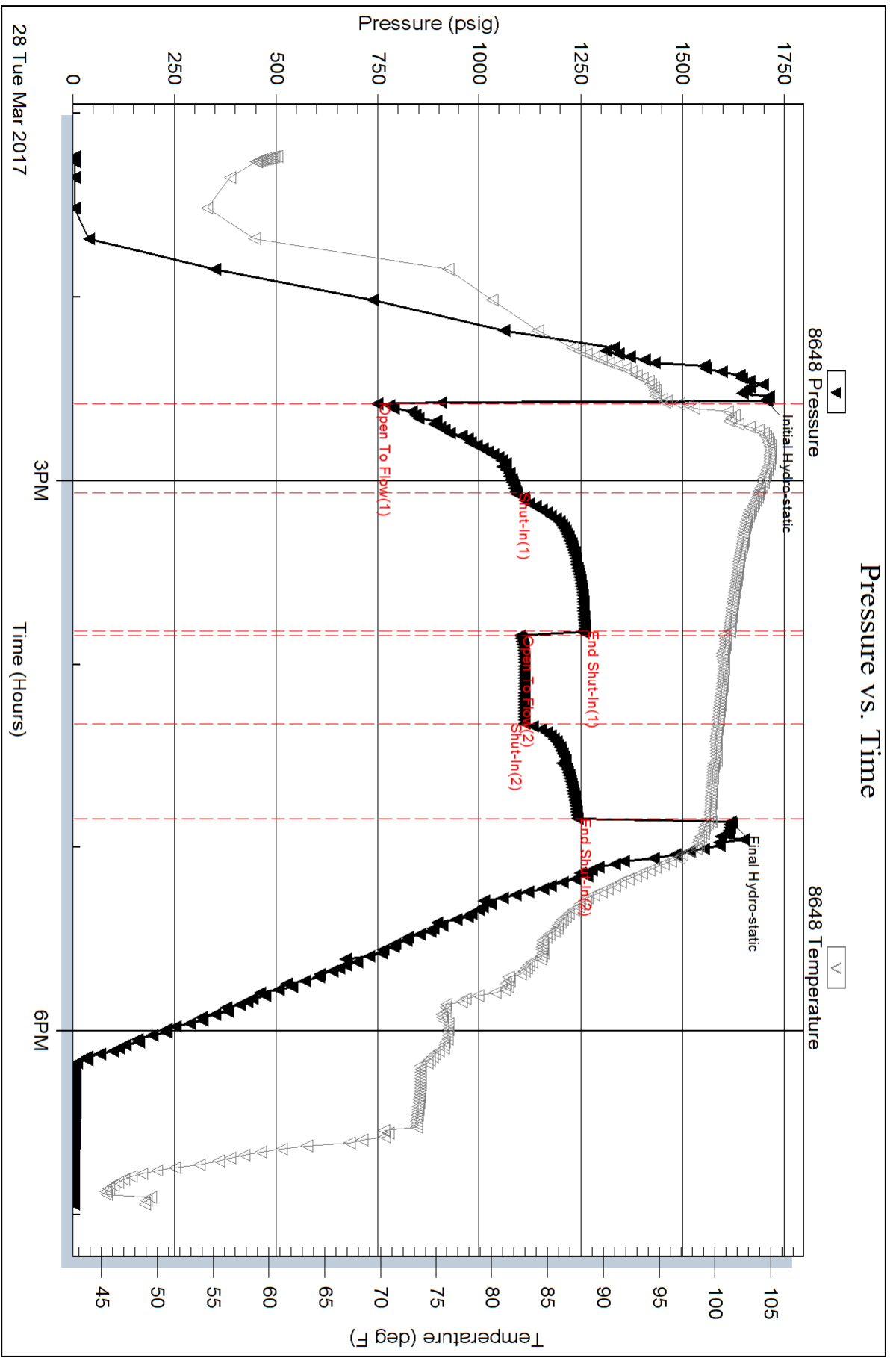
Num Gas Bombs: 0

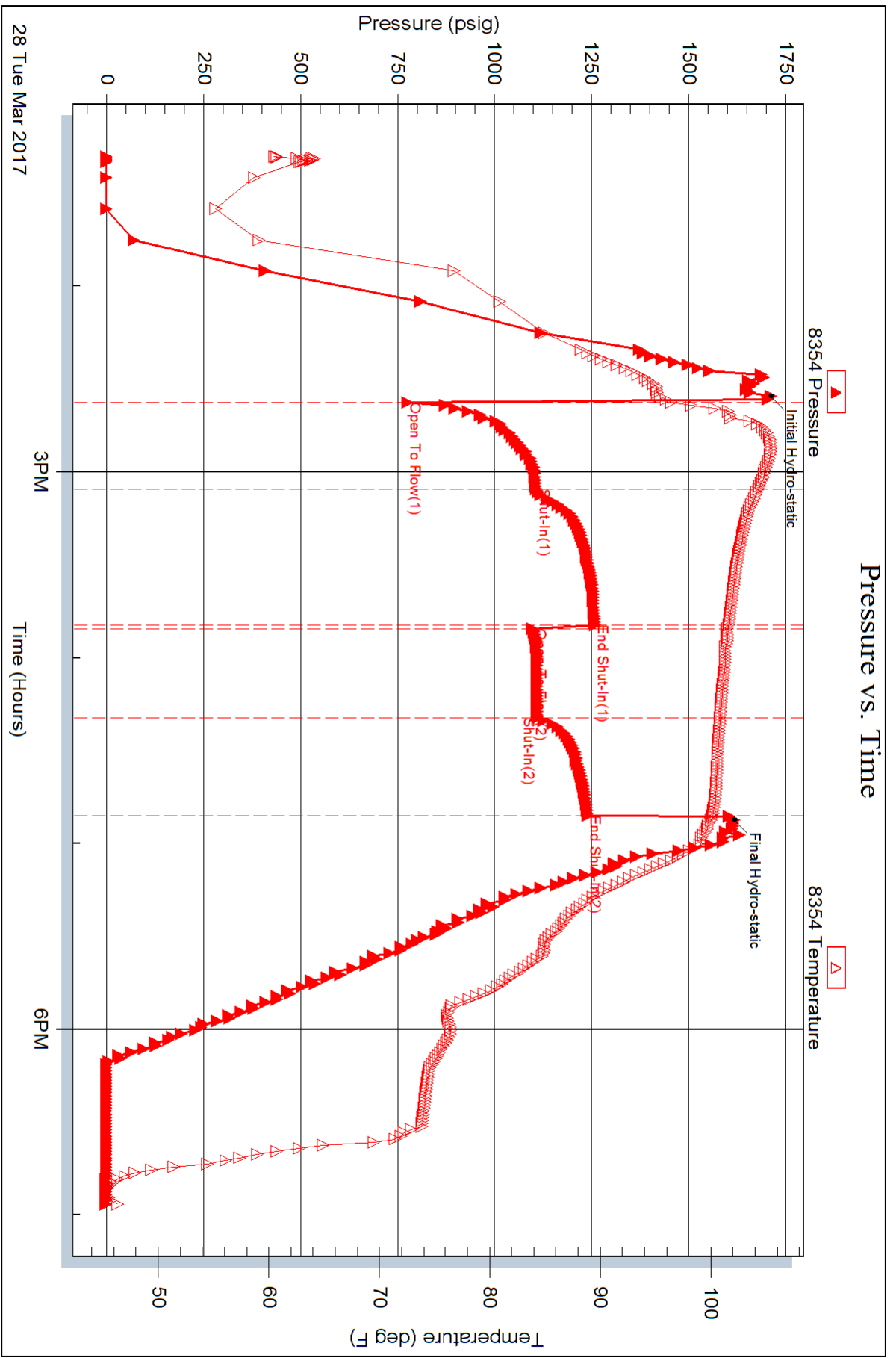
Serial #:

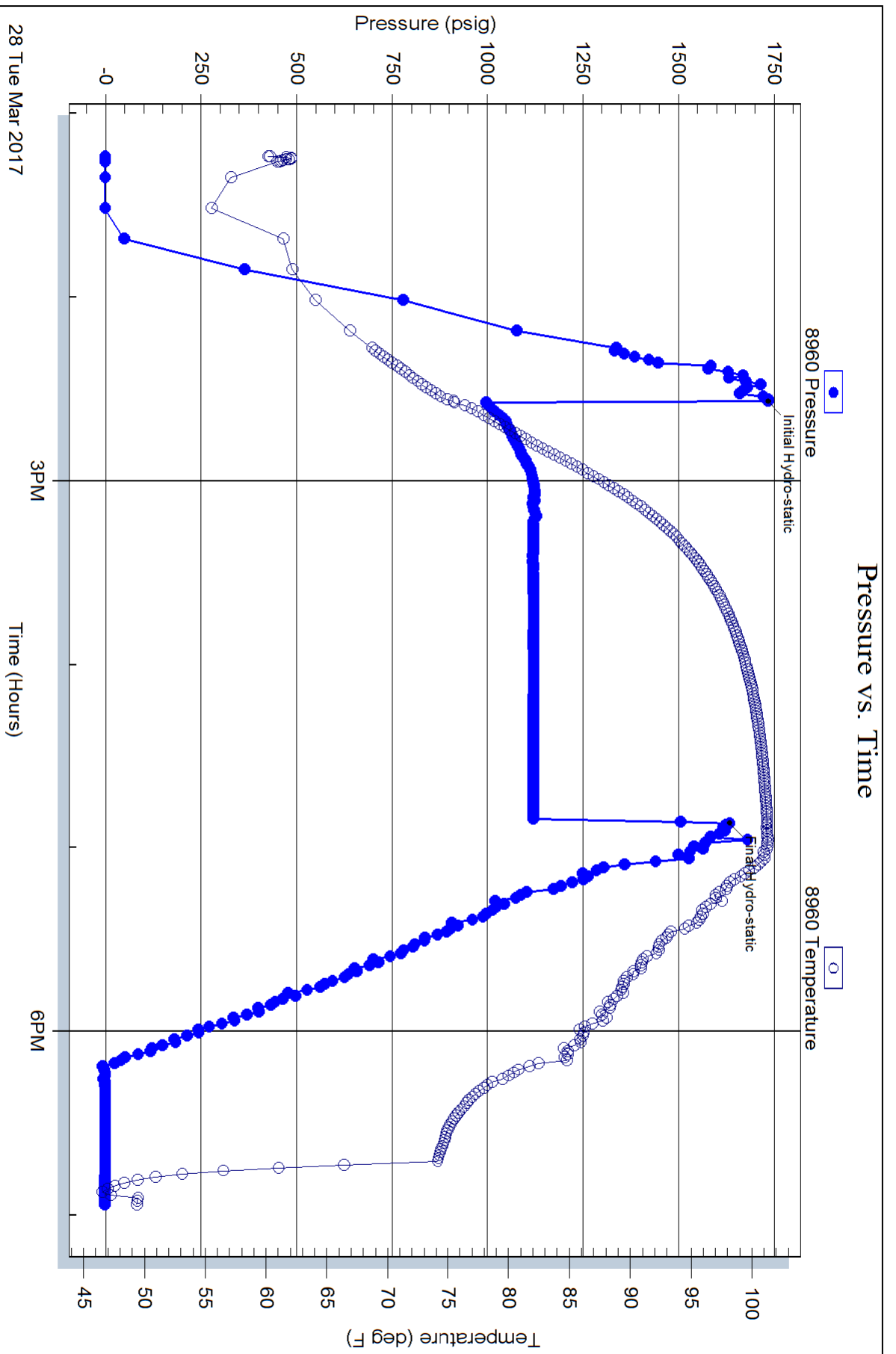
Laboratory Name:

Laboratory Location:

Recovery Comments: .38 @ 50* F







28 Tue Mar 2017

3PM

Time (Hours)

6PM



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64813

Well Name & No. Jones 1-25 Test No. 1 Date 25 MAR 17
 Company Landmark Resources Inc Elevation 2042 KB 2037 GL
 Address 1616 S Voss Road Suite 600 Houston TX 77057 + 2641
 Co. Rep / Geo. Wes Hansen Rig Murfin Rig 16
 Location: Sec. 25 Twp. 10S Rge. 18W Co. Rooks State KS

Interval Tested 3190 - 3290 Zone Tested Oreod / Lansing A
 Anchor Length 100 Drill Pipe Run 3166 Mud Wt. 8.9
 Top Packer Depth 3185 Drill Collars Run 30 Vis 50
 Bottom Packer Depth 3190 Wt. Pipe Run - WL 7.6
 Total Depth 3290 Chlorides 8600 ppm System LCM 2#

Blow Description I.F. Blow built to 1 1/2 inch
I.S.I. No blow back
F.F. Surface blow started after 10 minutes remained throughout
F.S.I. No blow back

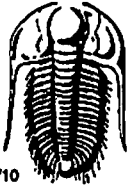
Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>Mud w/ water w/ show of oil</u>			<u>60</u>	<u>40</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45 BHT 94 Gravity API RW .38 @ 46 °F Chlorides 26,000 ppm

(A) Initial Hydrostatic <u>1591</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>10:58 pm</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1:00 am</u>
(C) First Final Flow <u>32</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2:47 am</u>
(D) Initial Shut-In <u>942</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>5:32 am</u>
(E) Second Initial Flow <u>3.5</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:53 am</u>
(F) Second Final Flow <u>37</u>	<input checked="" type="checkbox"/> Mileage <u>46</u> 34.50	Comments
(G) Final Shut-In <u>921</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1537</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1409.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1409.50</u>	

Approved By Wesley Hansen Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64814

Well Name & No. Jones 1-25 Test No. 7 Date 25 MAR 17
 Company Landmark Resources Inc Elevation 2042 KB 2037 GL
 Address 1616 S Voss Road Suite 600 Houston TX 77057-2641
 Co. Rep / Geo. Wes Hansen Rig MurFin Rig 16
 Location: Sec. 25 Twp. 10S Rge. 18W Co. Rooks State KS

Interval Tested 3298-3350 Zone Tested Lansing C&D
 Anchor Length 52 Drill Pipe Run 3262 Mud Wt. 9.0
 Top Packer Depth 3293 Drill Collars Run 30 Vis 59
 Bottom Packer Depth 3298 Wt. Pipe Run — WL 7.2
 Total Depth 3350 Chlorides 4100 ppm System LCM 27

Blow Description I.F. Surface blow for 2 minutes then dead
I.S.I No blow back
F.F Few bubbles at open then dead
F.S.I No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud w/ oil spots in tool</u>				<u>100</u>

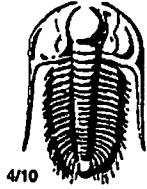
Rec Total 15 BHT 92 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

A) Initial Hydrostatic 1631 Test 1050 T-On Location 3:55 pm
 B) First Initial Flow 23 Jars 250 T-Started 4:13 pm
 C) First Final Flow 25 Safety Joint 75 T-Open 5:53 pm
 D) Initial Shut-In 1647 Circ Sub _____ T-Pulled 7:53 pm
 E) Second Initial Flow 30 Hourly Standby _____ T-Out 8:12 pm
 F) Second Final Flow 31 Mileage 46 34.50
 G) Final Shut-In 565 Sampler _____
 H) Final Hydrostatic 1613 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1409.50

MP/DST Disc't _____

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64815

Well Name & No. Jones 1-25 Test No. 3 Date 26 MAR 17
 Company Landmark Resources Inc Elevation 2042 KB 2037 GL
 Address 1616 S Voss Road Suite 600 Houston TX 77057 +2641
 Co. Rep / Geo. Wes Hansen Rig Murpin Rig 16
 Location: Sec. 25 Twp. 10S Rge. 18W Co. Rooks State KS

Interval Tested 3346-3450 Zone Tested Lansing E-I
 Anchor Length 104 Drill Pipe Run 3294 Mud Wt. 9.2
 Top Packer Depth 3341 Drill Collars Run 30 Vis 51
 Bottom Packer Depth 3346 Wt. Pipe Run - WL 7.4
 Total Depth 3450 Chlorides 4000 ppm System LCM 2#

Blow Description I.F. Blow built to 6 inches
I.S.I No blow back
F.F. Blow built to 4 inches
F.S.I No blow back

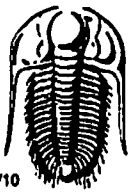
Rec	Feet of	%gas	%oil	%water	%mud
<u>165</u>	<u>Muddy Water</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 165 BHT 98 Gravity _____ API RW 204 @ 51 °F Chlorides 51,000 ppm

(A) Initial Hydrostatic <u>1653</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>9:00 am</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:22 am</u>
(C) First Final Flow <u>61</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:05 am</u>
(D) Initial Shut-In <u>647</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2:35 pm</u>
(E) Second Initial Flow <u>68</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>4:05 pm</u>
(F) Second Final Flow <u>101</u>	<input checked="" type="checkbox"/> Mileage <u>46</u> 34.50	Comments _____
(G) Final Shut-In <u>656</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>1597</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1409.50</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1409.50</u>	

Approved By Wesley Hansen Our Representative Photo [Signature]

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



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64816

Well Name & No. Jones 1-25 Test No. 4 Date 27 MAR 17
 Company Landmark Resources Inc. Elevation 2042 KB 2037 GL
 Address 1616 S Voss Road Suite 600 Houston TX 77057+2641
 Co. Rep / Geo. Wes Hansen Rig Murfin Rig 16
 Location: Sec. 25 Twp. 10S Rge. 18W Co. Rooks State KS

Interval Tested 3448-3480 Zone Tested Lansing/Kansas City K
 Anchor Length 32 Drill Pipe Run 3421 Mud Wt. 9.2
 Top Packer Depth 3443 Drill Collars Run 30 Vis 51
 Bottom Packer Depth 3448 Wt. Pipe Run — WL 7.4
 Total Depth 3480 Chlorides 4000 ppm System LCM 2#
 Blow Description Packer Failure pull test

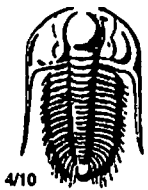
Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>Mud</u>				<u>100%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total <u>180</u>	BHT	Gravity	API RW	@	°F Chlorides ppm

(A) Initial Hydrostatic Test 850 T-On Location 12:05 am
 (B) First Initial Flow Jars 250 T-Started 12:32 am
 (C) First Final Flow Safety Joint 75 T-Open 2:10 am
 (D) Initial Shut-In Circ Sub _____ T-Pulled 2:20 am
 (E) Second Initial Flow Hourly Standby _____ T-Out 3:35 am
 (F) Second Final Flow Mileage 46 34.50 Comments _____
 (G) Final Shut-In Sampler _____
 (H) Final Hydrostatic Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1209.50

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1209.50
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

Tribolite 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. 64817

Well Name & No. Jones 1-25 Test No. 5 Date 27 MAR 17
 Company Landmark Resources Inc Elevation 2042 KB 2037 GL
 Address 1616 S Voss Road Suite 600 Houston TX 77057+2641
 Co. Rep / Geo. Wes Hanson Rig Murfin Rig 16
 Location: Sec. 25 Twp. 10S Rge. 18W Co. Rooks State KS

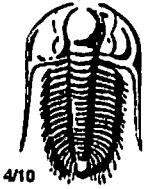
Interval Tested 3444-3480 Zone Tested Lansing / Kansas City K
 Anchor Length 36 Drill Pipe Run 3421 Mud Wt. 9.2
 Top Packer Depth 3439 Drill Collars Run 30 Vis 51
 Bottom Packer Depth 3444 Wt. Pipe Run - WL 7.4
 Total Depth 3480 Chlorides 4000 ppm System LCM 2 #
 Blow Description Packer failure pull test

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>Mud</u>				<u>100</u>

Rec Total 180 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1655 Test 850 T-On Location _____
 (B) First Initial Flow _____ Jars 250 T-Started 3:47 am
 (C) First Final Flow _____ Safety Joint 75 T-Open 5:09 am
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 5:12 am
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 6:44 am
 (F) Second Final Flow _____ Mileage 46 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1627 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open _____ Extra Recorder _____ Sub Total 0
 Initial Shut-In _____ Day Standby _____ Total 1175
 Final Flow _____ Accessibility _____ MP/DST Disc't _____
 Final Shut-In _____ Sub Total 1175

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64818

Well Name & No. Jones 1-25 Test No. 6 Date 27 MAR 17
 Company Landmark Resources Inc Elevation 2042 KB 2037 GL
 Address 1616 S Voss Road Suite 600 Houston TX 77057 + 2641
 Co. Rep / Geo. Wes Hansen Rig Murfin Rig 16
 Location: Sec. 25 Twp. 10S Rge. 18W Co. Rooks State KS

Interval Tested 3615-3647 Zone Tested Arbuckle
 Anchor Length 32 Drill Pipe Run 3578 Mud Wt. 9.0
 Top Packer Depth 3610 Drill Collars Run 30 Vis 48
 Bottom Packer Depth 3615 Wt. Pipe Run - WL 7.2
 Total Depth 3647 Chlorides 5200 ppm System LCM 4#

Blow Description I.F. Blow built to BOB in 1 minute
I.S.I No blow back
F.F. Blow built to BOB in 1 minute 15 seconds
F.S.I NO blow back

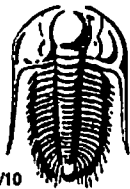
Rec	Feet of	%gas	%oil	%water	%mud
<u>2480</u>	<u>Muddy Water</u>		<u>9.5</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2480 BHT 109 Gravity API RW.363 @ 47 °F Chlorides 27,000 ppm

(A) Initial Hydrostatic <u>1765</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>5:22 pm</u>
(B) First Initial Flow <u>290</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>5:47 pm</u>
(C) First Final Flow <u>887</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>7:12 pm</u>
(D) Initial Shut-In <u>1184</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>9:57 pm</u>
(E) Second Initial Flow <u>898</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:41 am</u>
(F) Second Final Flow <u>1143</u>	<input checked="" type="checkbox"/> Mileage <u>46</u> 34.50	Comments
(G) Final Shut-In <u>1186</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1719</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1409.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1409.50</u>	

Approved By Wesley Hansen Our Representative [Signature]

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64819

Well Name & No. Jones 1-25 Test No. 7 Date 28 MAR 17
 Company Landmark Resources Inc Elevation 2042 KB 2037 GL
 Address 1616 Voss Road Suite 600 Houston TX 77057+2641
 Co. Rep / Geo. Wes Hansen Rig Murkin Rig 16
 Location: Sec. 25 Twp. 10S Rge. 18W Co. Rooks State KS

Interval Tested 3477-3470 Zone Tested Lansing/Kansas City K
 Anchor Length 33 Drill Pipe Run 3392 Mud Wt. 9.0
 Top Packer Depth 3432 Drill Collars Run 30 Vis 48
 Bottom Packer Depth 3437 Wt. Pipe Run — WL 7.2
 Total Depth 3698 Chlorides 5200 ppm System LCM 4#

Blow Description I.F. Blow built to BOB in 30 seconds
I.S.I. No blow back
F.F. Blow built to 7 1/2 inches in 8 min started to die off dead at 20 minutes
F.S.I. No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2510</u>	<u>Muddy Water</u>		<u>90</u>	<u>10</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 2510 BHT 104 Gravity _____ API RW 38 @ 50°F Chlorides 24,000 ppm

(A) Initial Hydrostatic <u>1705</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>11:24 am</u>
(B) First Initial Flow <u>747</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1:14 pm</u>
(C) First Final Flow <u>1091</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2:35 pm</u>
(D) Initial Shut-In <u>1260</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>4:50 pm</u>
(E) Second Initial Flow <u>1101</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>6:57 pm</u>
(F) Second Final Flow <u>1111</u>	<input checked="" type="checkbox"/> Mileage <u>46</u> 34.50	Comments _____
(G) Final Shut-In <u>1241</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1622</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>X2</u> 500	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1909.50</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1909.50</u>	

Approved By _____ Our Representative [Signature]

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