

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	JONES 1-25
Doc ID	1352410

All Electric Logs Run

Borehole Compensated Sonic Log
Microresistivity
Dual Comp Porosity
Dual Induction

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	JONES 1-25
Doc ID	1352410

Tops

Name	Top	Datum
Anhydrite	1345	695
B/Anhydrite	1381	659
Topeka	3009	-969
Heebner	3231	-1191
Toronto	3250	-1210
Lansing	3271	-1231
C	3304	-1264
D	3324	-1284
E	3342	-1302
F	3355	-1315
G	3365	-1325
Muncie Creek	3396	-1356
H	3406	-1366
I	3428	-1388
J	3441	-1401
Stark Shale	3456	-1416
K	3467	-1427
L	3487	-1447
BKC	3499	-1459
Conglomerate	3527	-1487
Simpson	3609	-1569
Arbuckle	3630	-1590





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

**25-10S-18W Rooks,KS**

**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

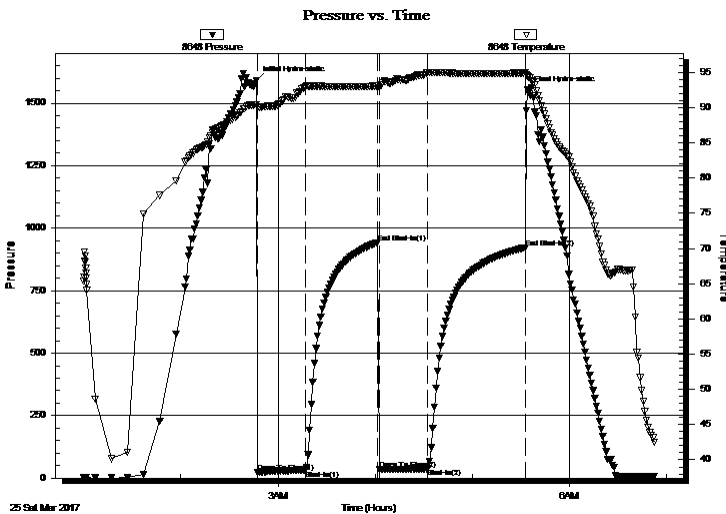
TEST COMMENT: IFP 30 Minutes Blow built to 1 1/2"

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

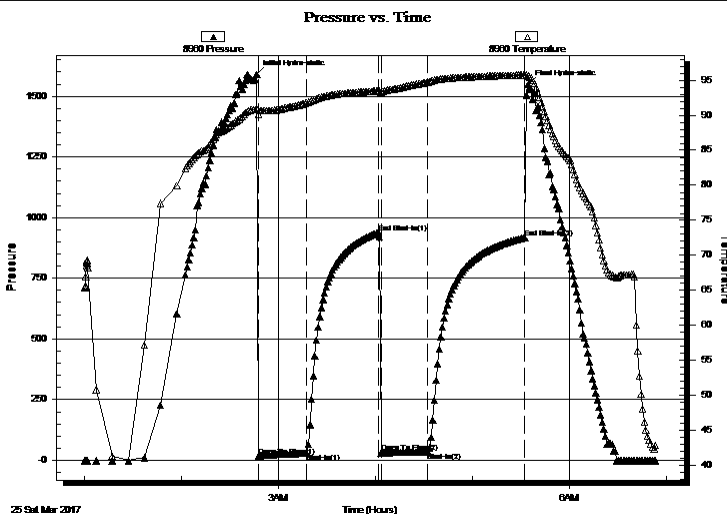
TEST COMMENT: IFP 30 Minutes Blow built to 1 1/2"

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
			<u>Total Volume: 44.56 bbl</u>	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

**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			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 in<sup>3</sup>

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

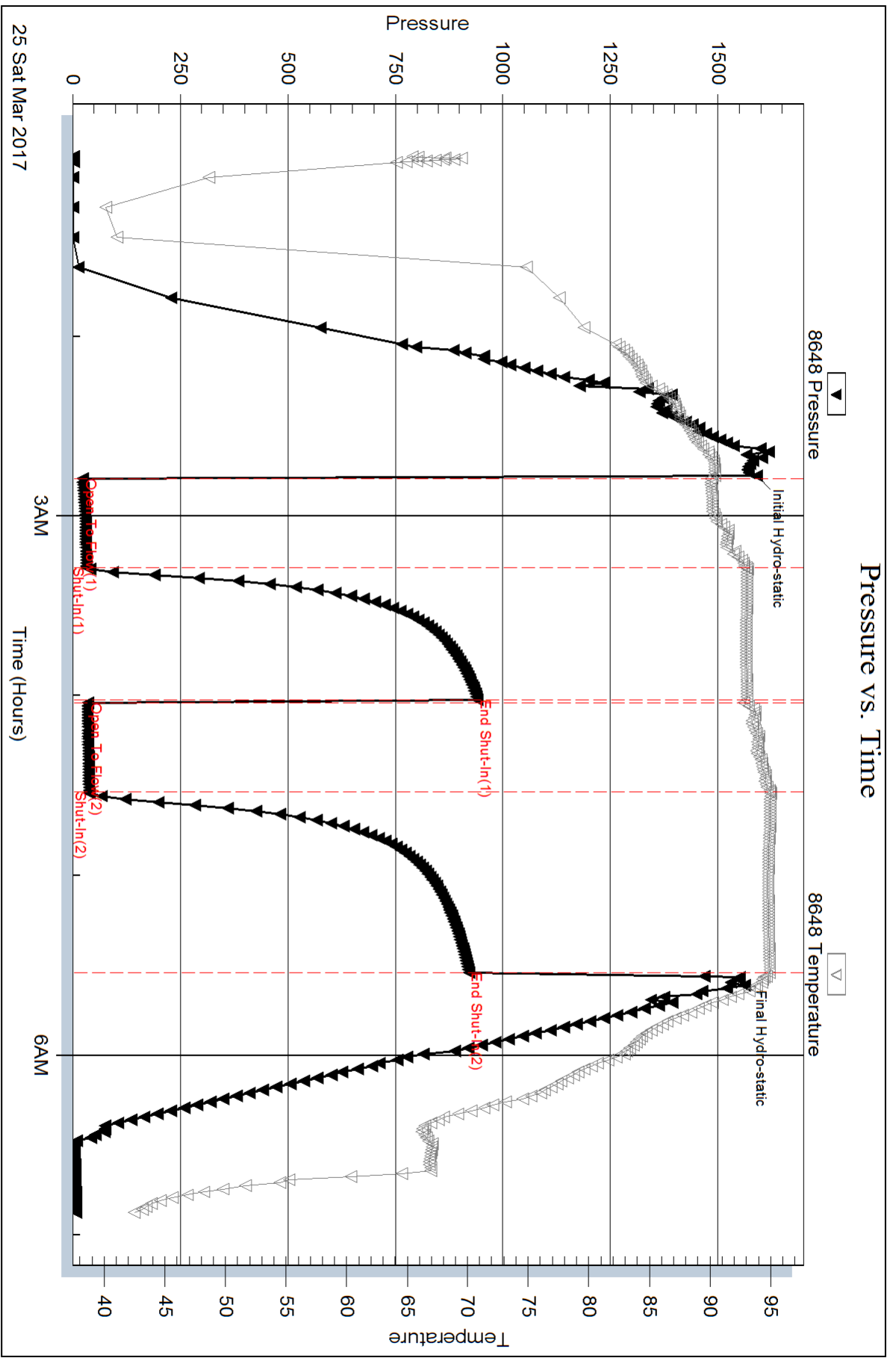
Num Gas Bombs: 0

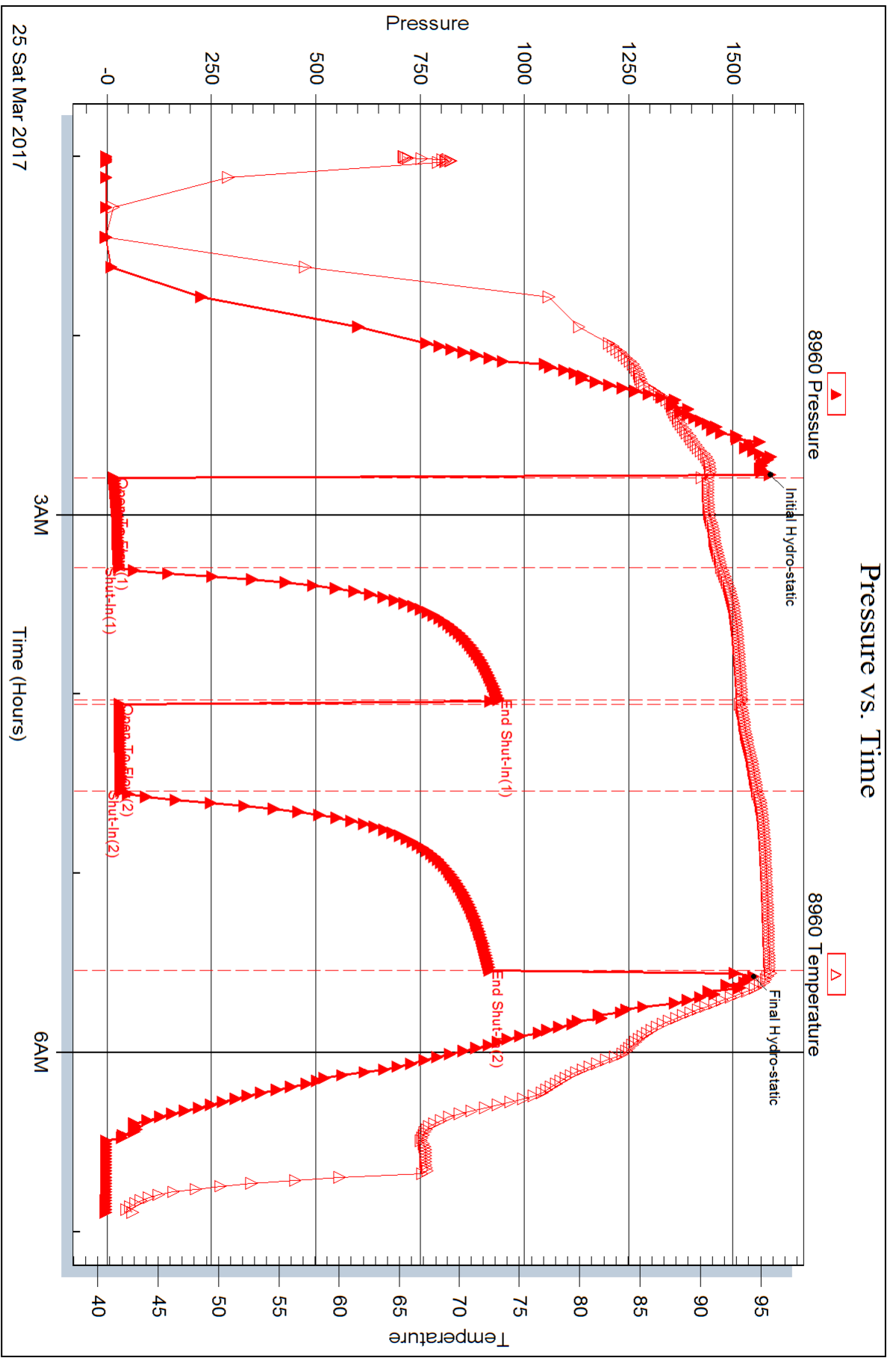
Serial #:

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.

**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 #: 8648**

**Inside**

Press@RunDepth: 31.42 psig @ 3345.70 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.25 End Date: 2017.03.25

Last Calib.: 2017.03.25

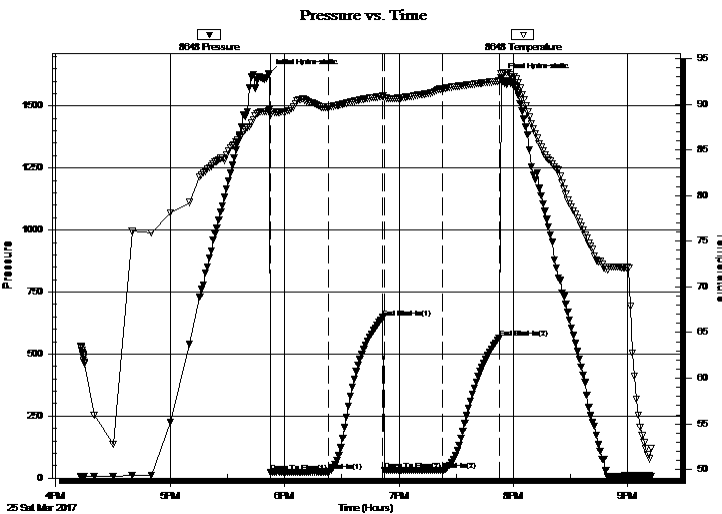
Start Time: 16:13:05 End Time: 21:12:29

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	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

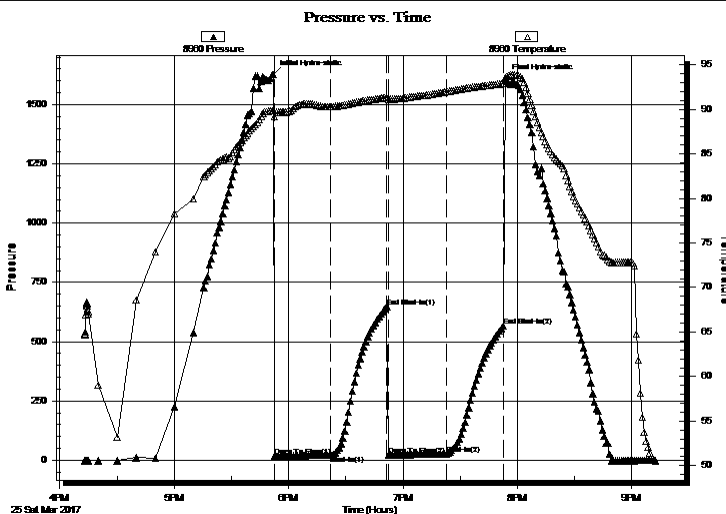
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**TEST COMMENT:** IFP 30 Minutes Surface blow for 2 minutes then dead  
ISI 30 Minutes No blow back  
FFP 30 Minutes Few bubbles at open then dead  
FSI 30 Minutes No blow back

## 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
			Total Volume: 48.35 bbl	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 in<sup>3</sup>

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

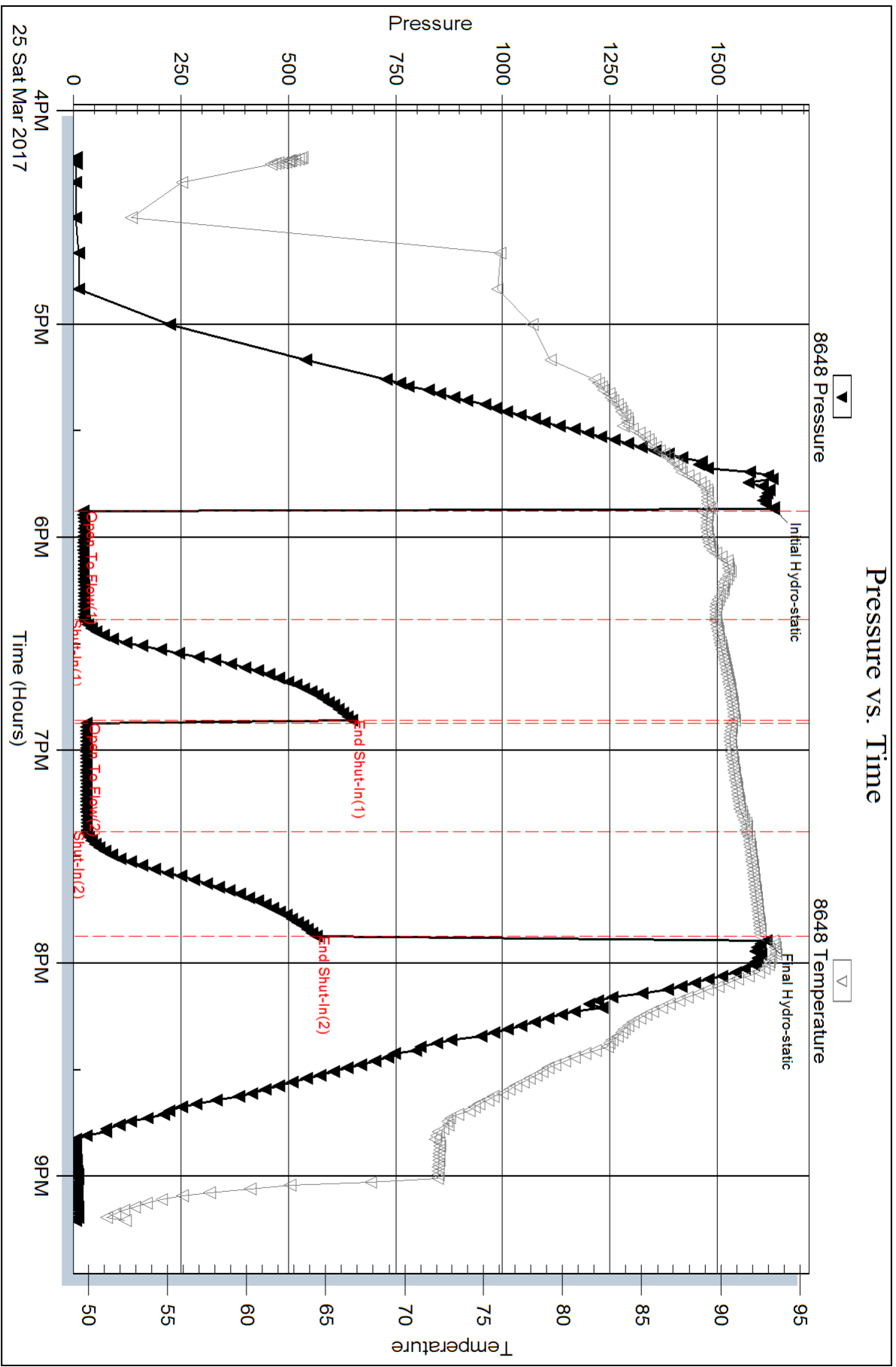
Num Gas Bombs: 0

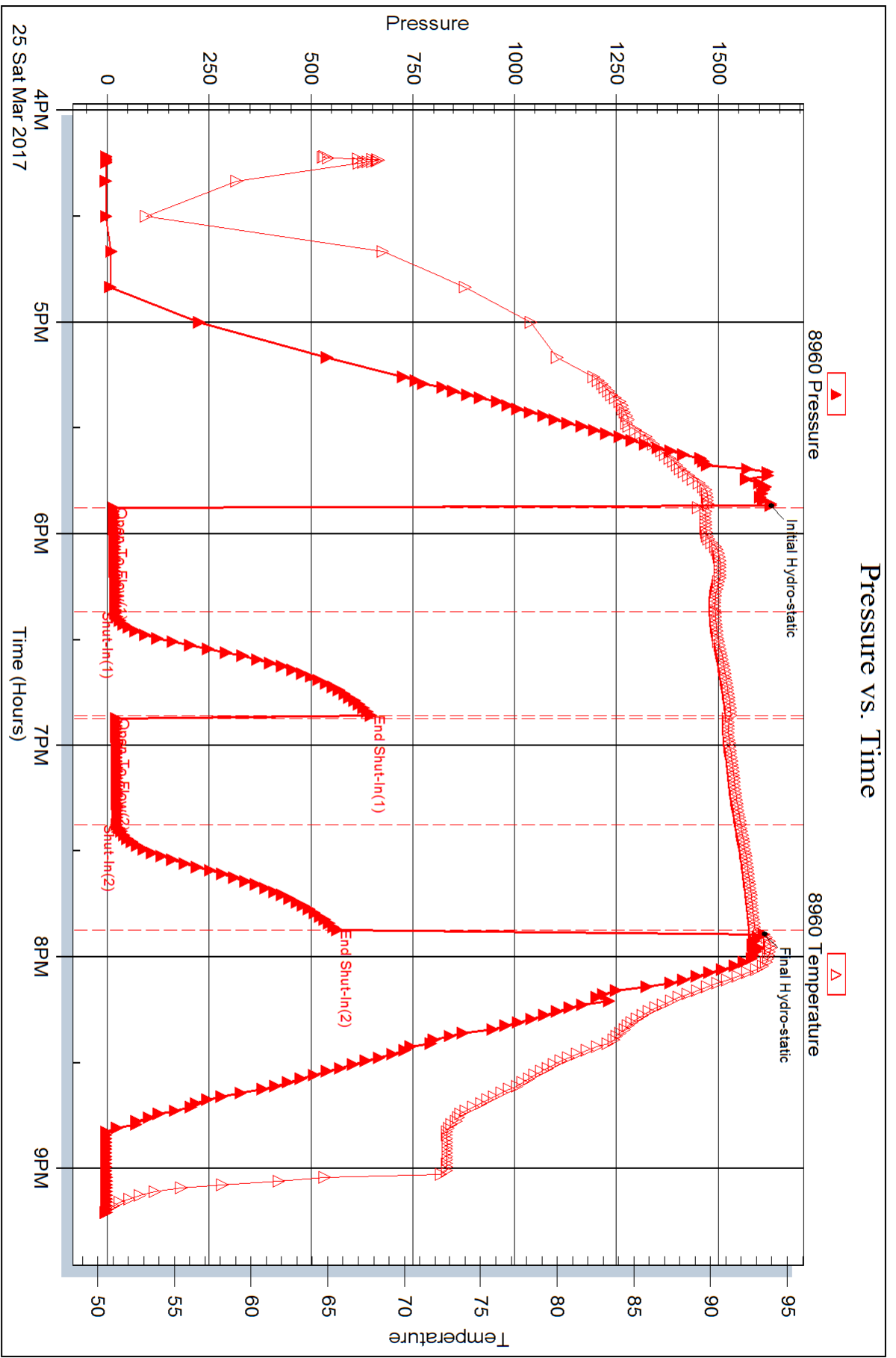
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## 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

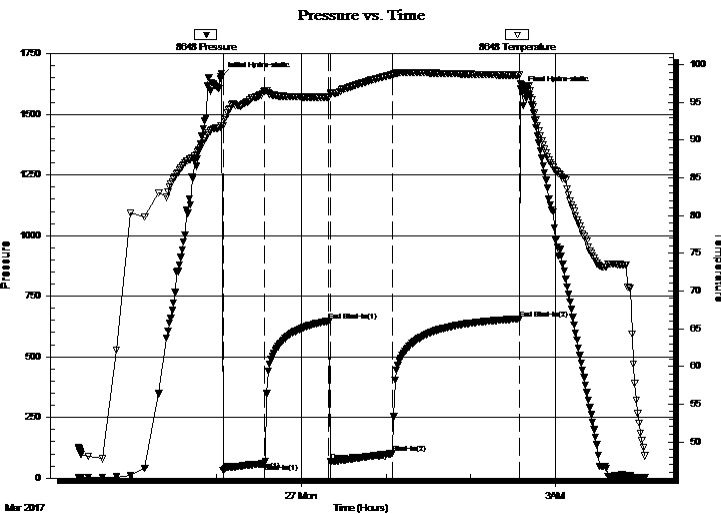
Time Off Btm: 2017.03.27 @ 02:36:00

**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

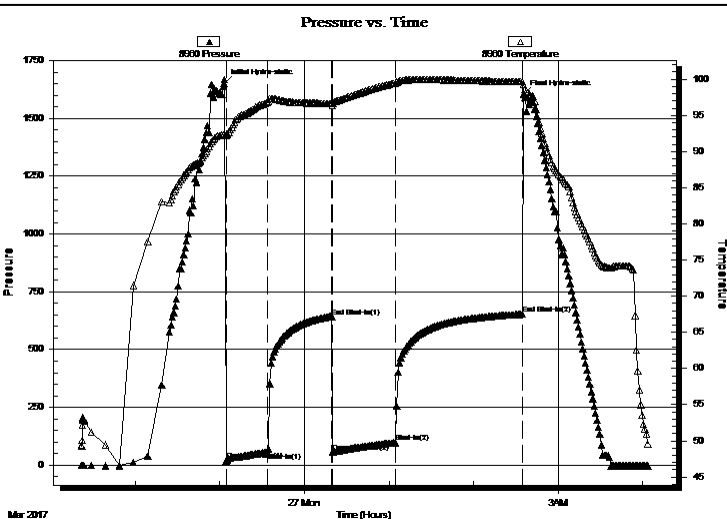
End Time:

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 in<sup>3</sup>

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

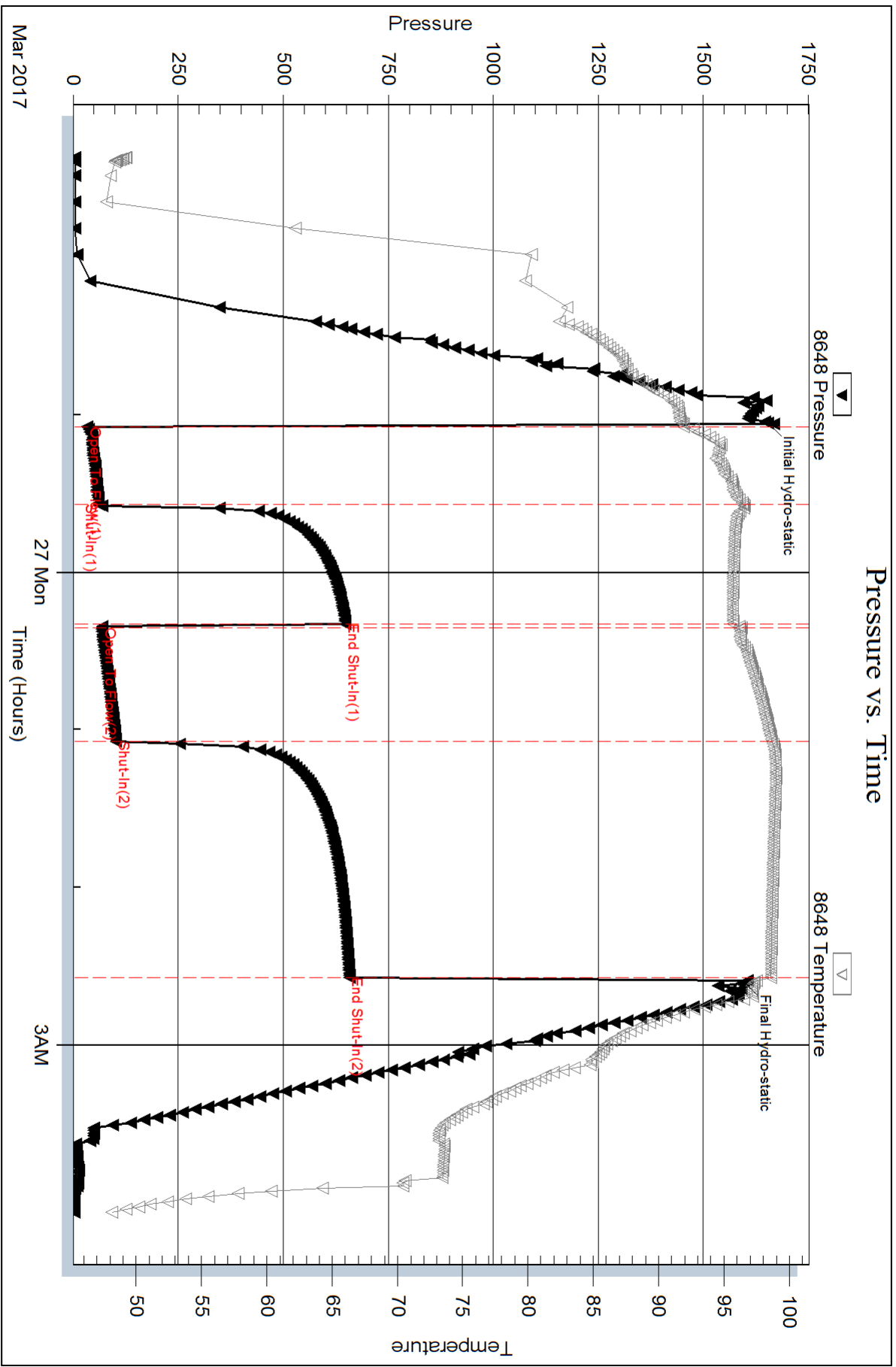
Serial #:

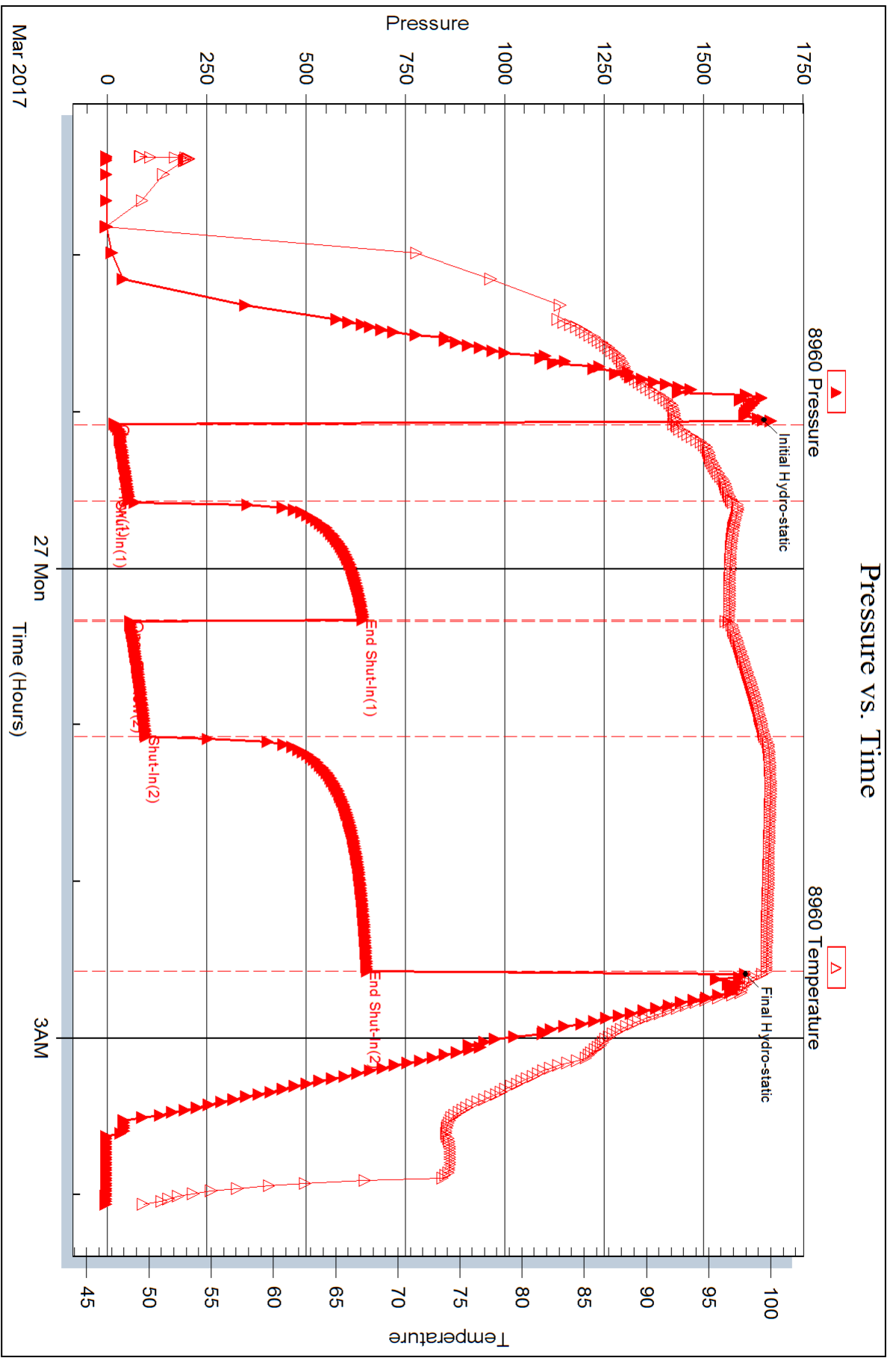
Laboratory Name:

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

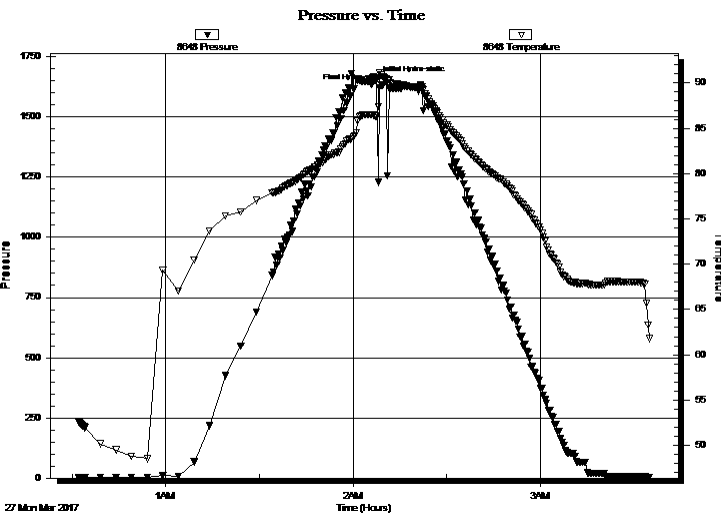
End Time:

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

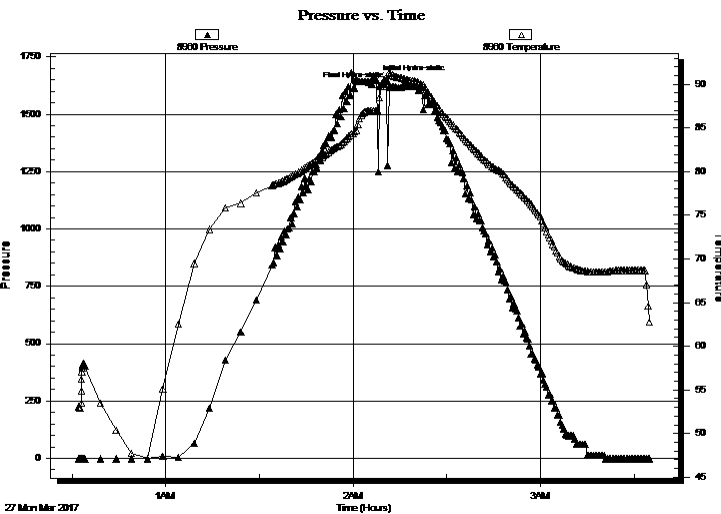
End Time:

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
<b>Total Tool Length:</b>	<b>59.00</b>				



**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 in<sup>3</sup>

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

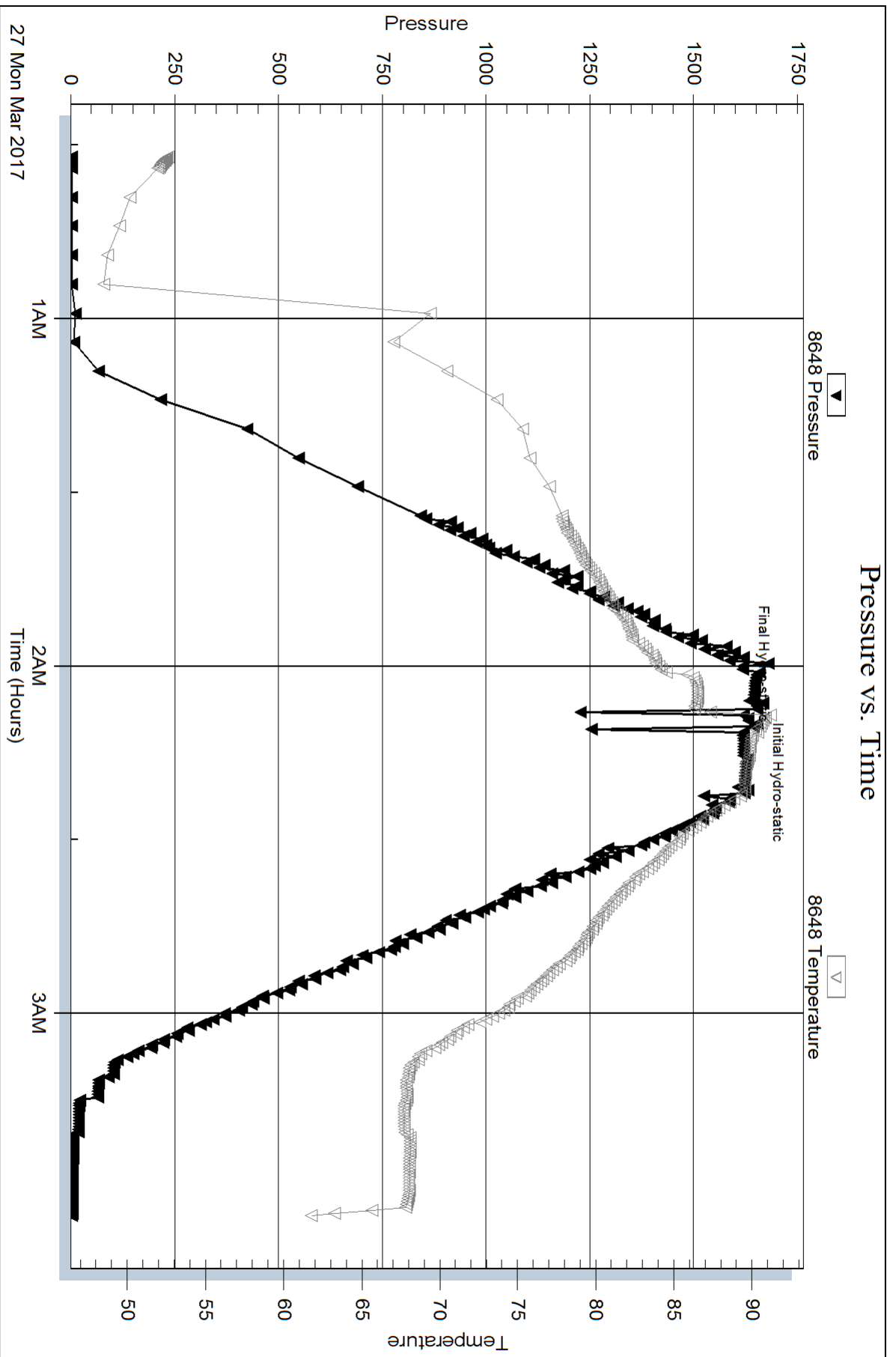
Num Gas Bombs: 0

Serial #:

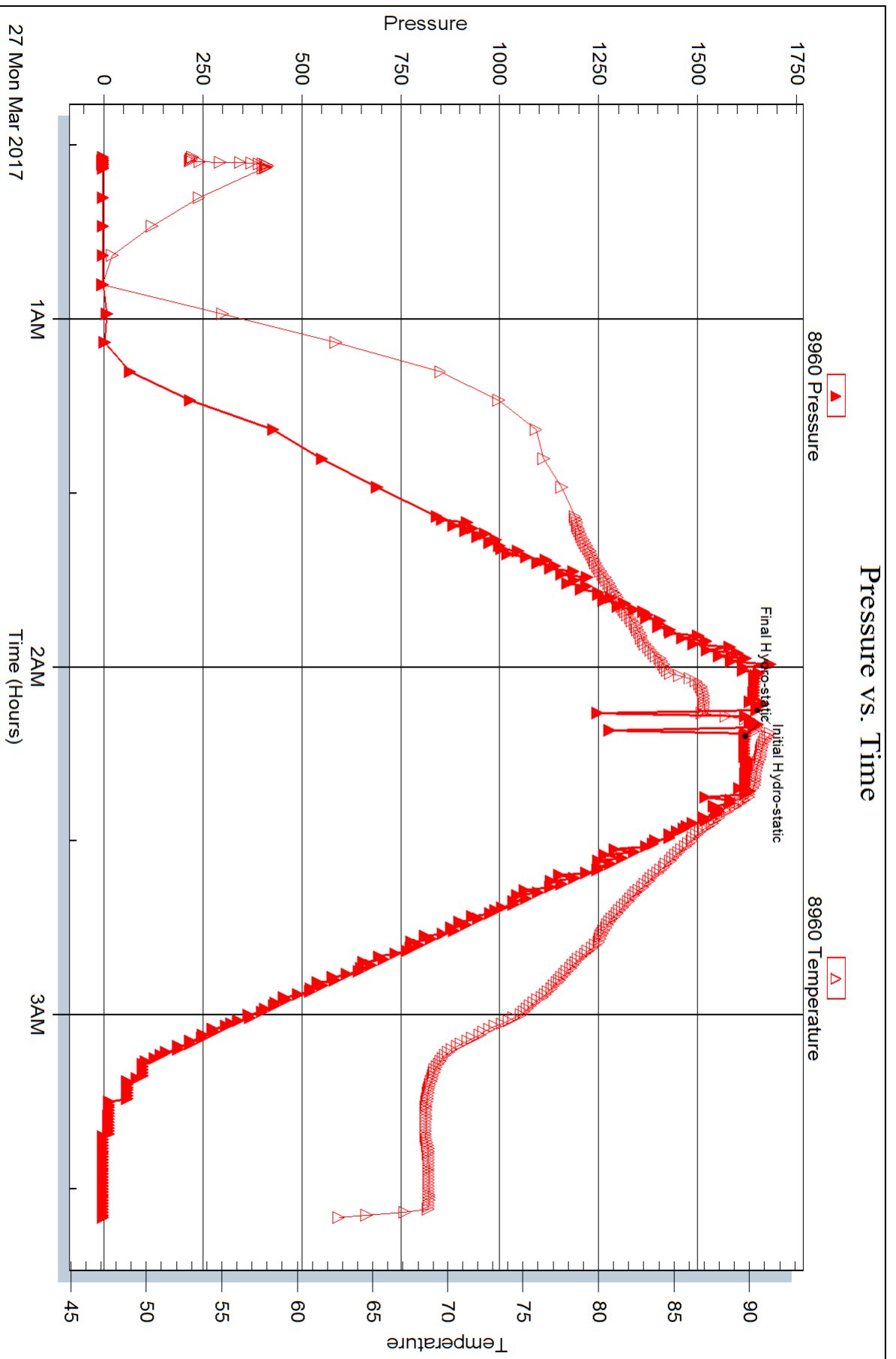
Laboratory Name:

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

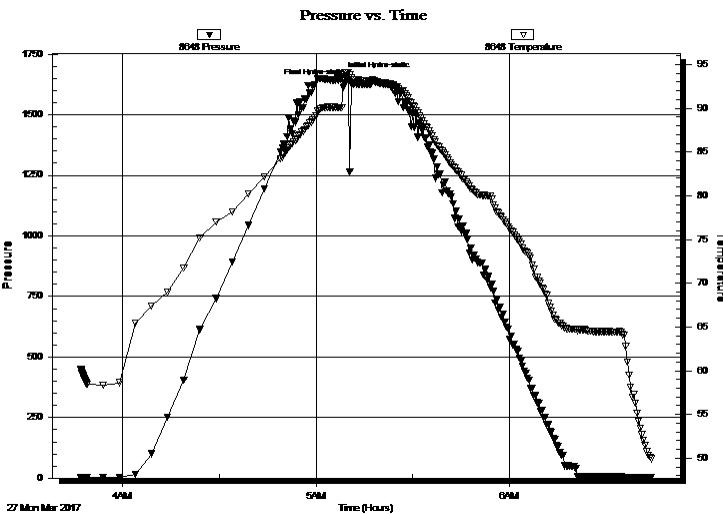
End Time:

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

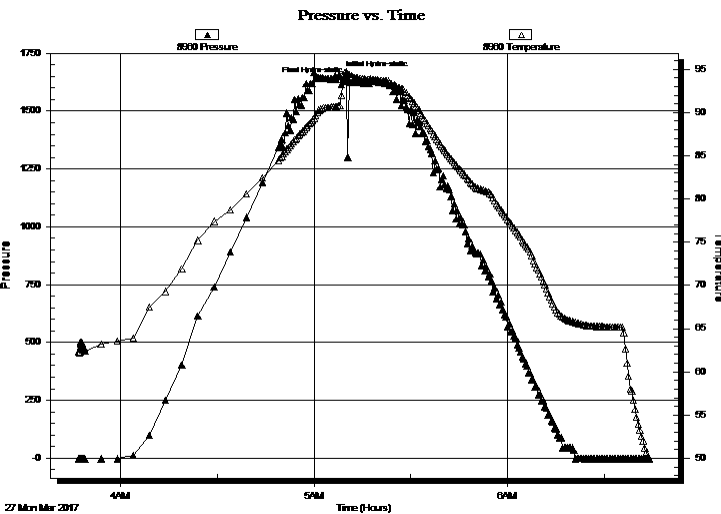
Time On Btm:

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	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
<b>Total Tool Length:</b>	<b>63.00</b>				



**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

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.38 in<sup>3</sup>

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
180.00	Mud 100%	2.252

Total Length: 180.00 ft      Total Volume: 2.252 bbl

Num Fluid Samples: 0

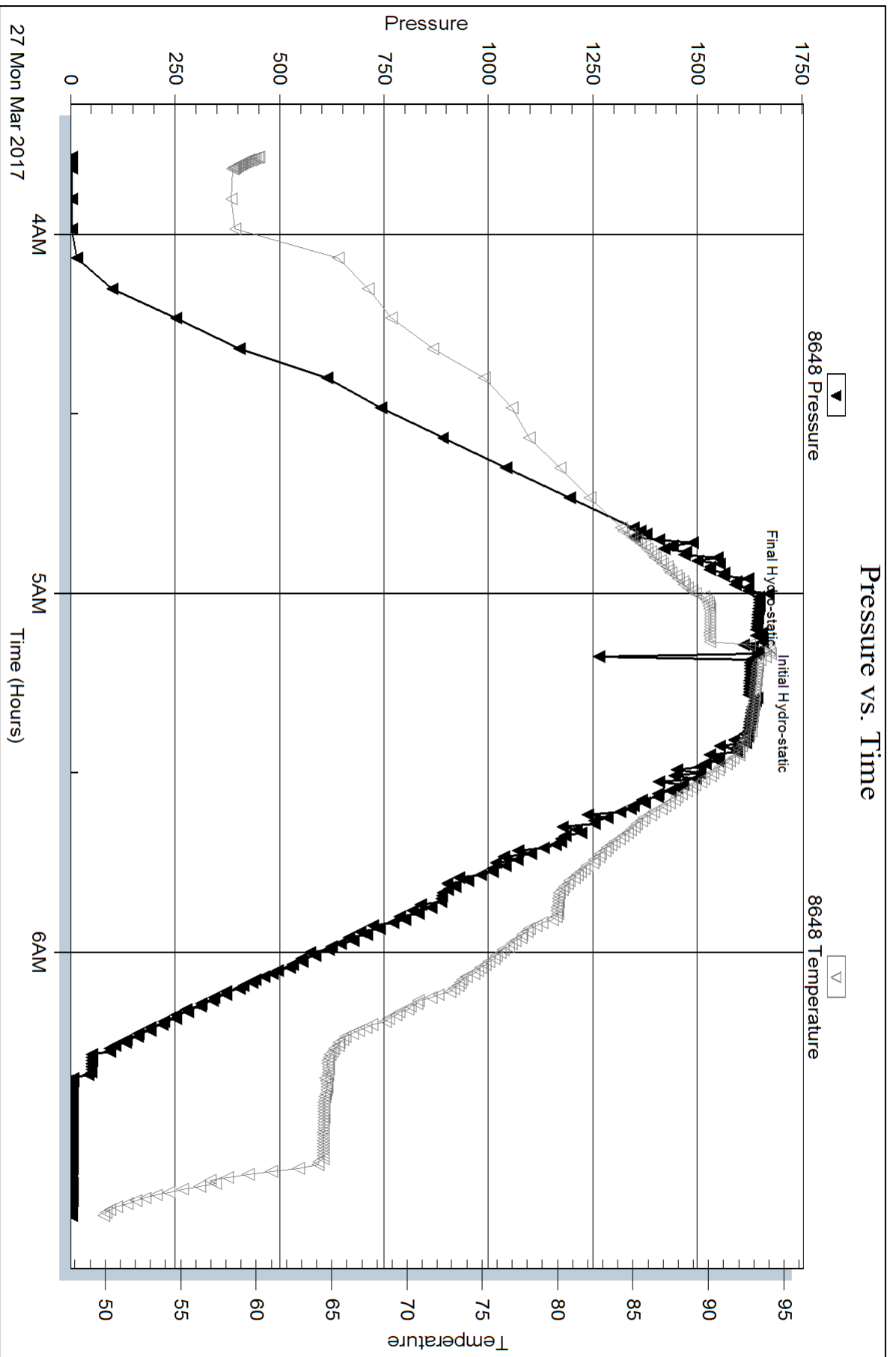
Num Gas Bombs: 0

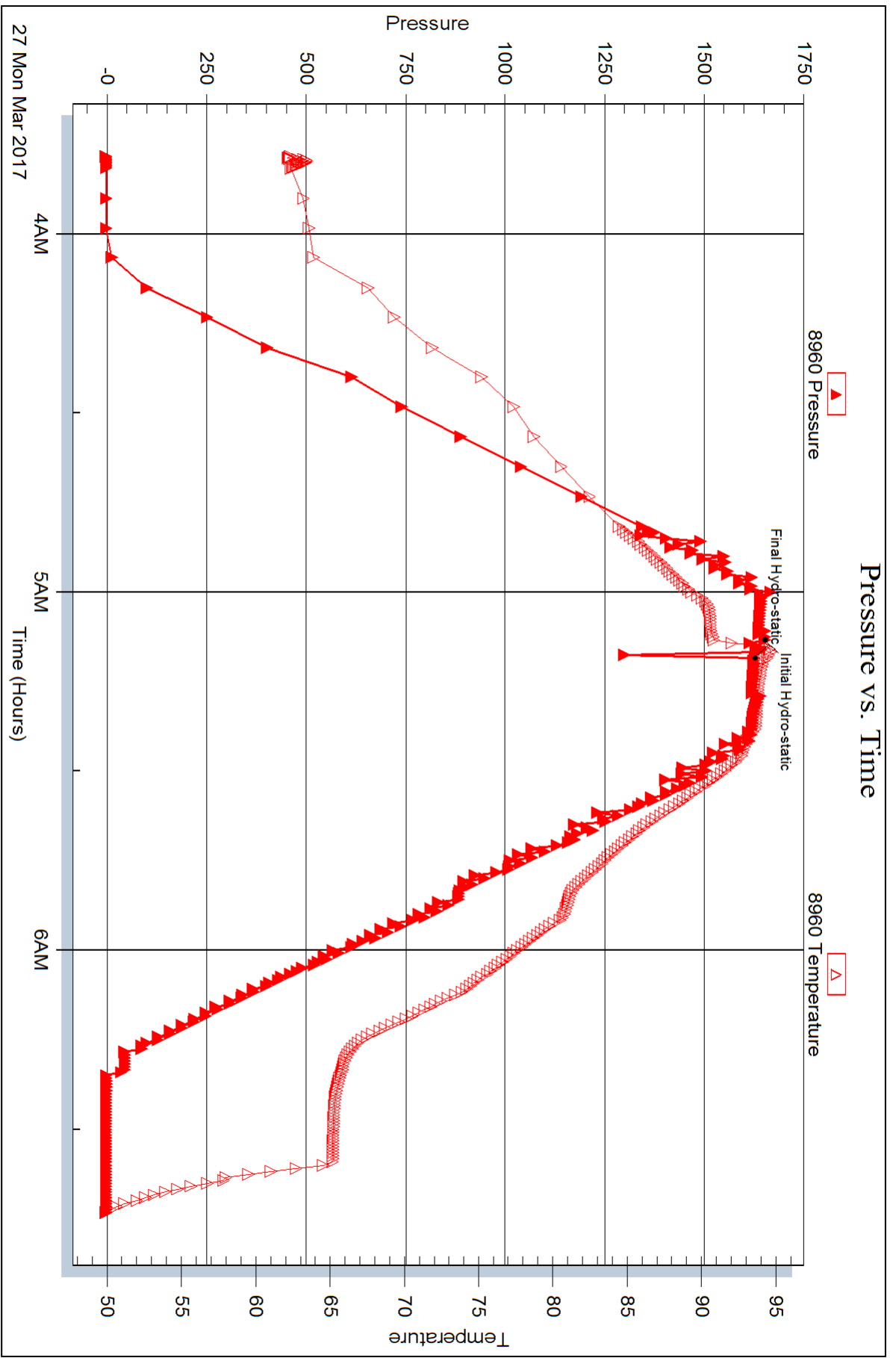
Serial #:

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

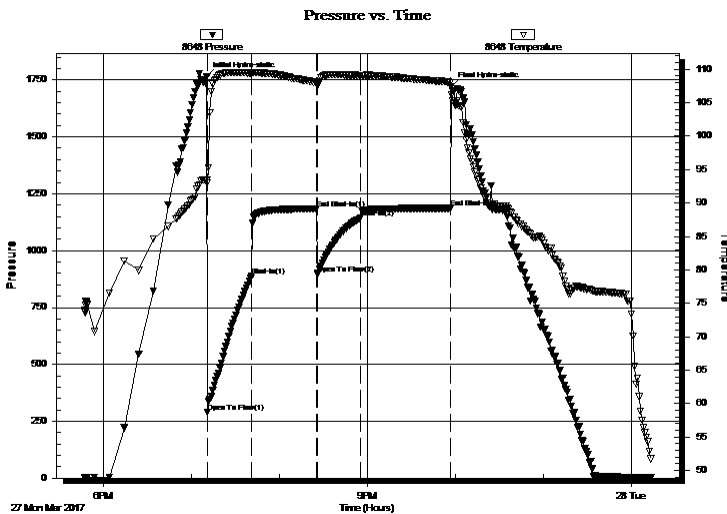
Time On Btm:

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

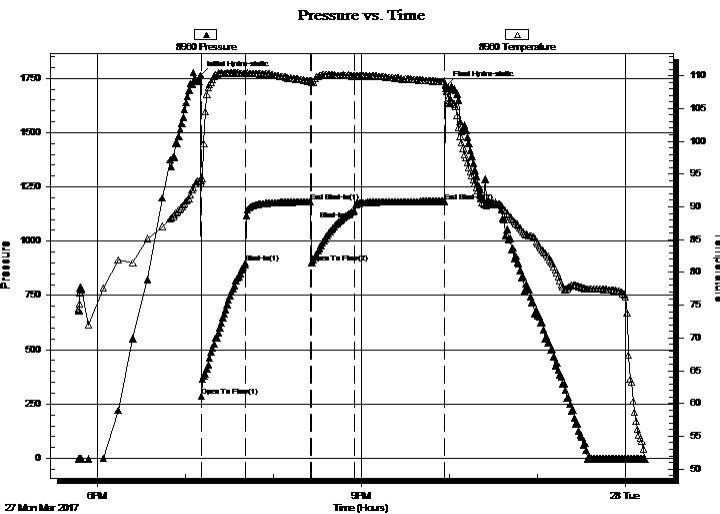
Last Calib.: 2017.03.28

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

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
<b>Total Tool Length:</b>	<b>59.00</b>				



**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 in<sup>3</sup>

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

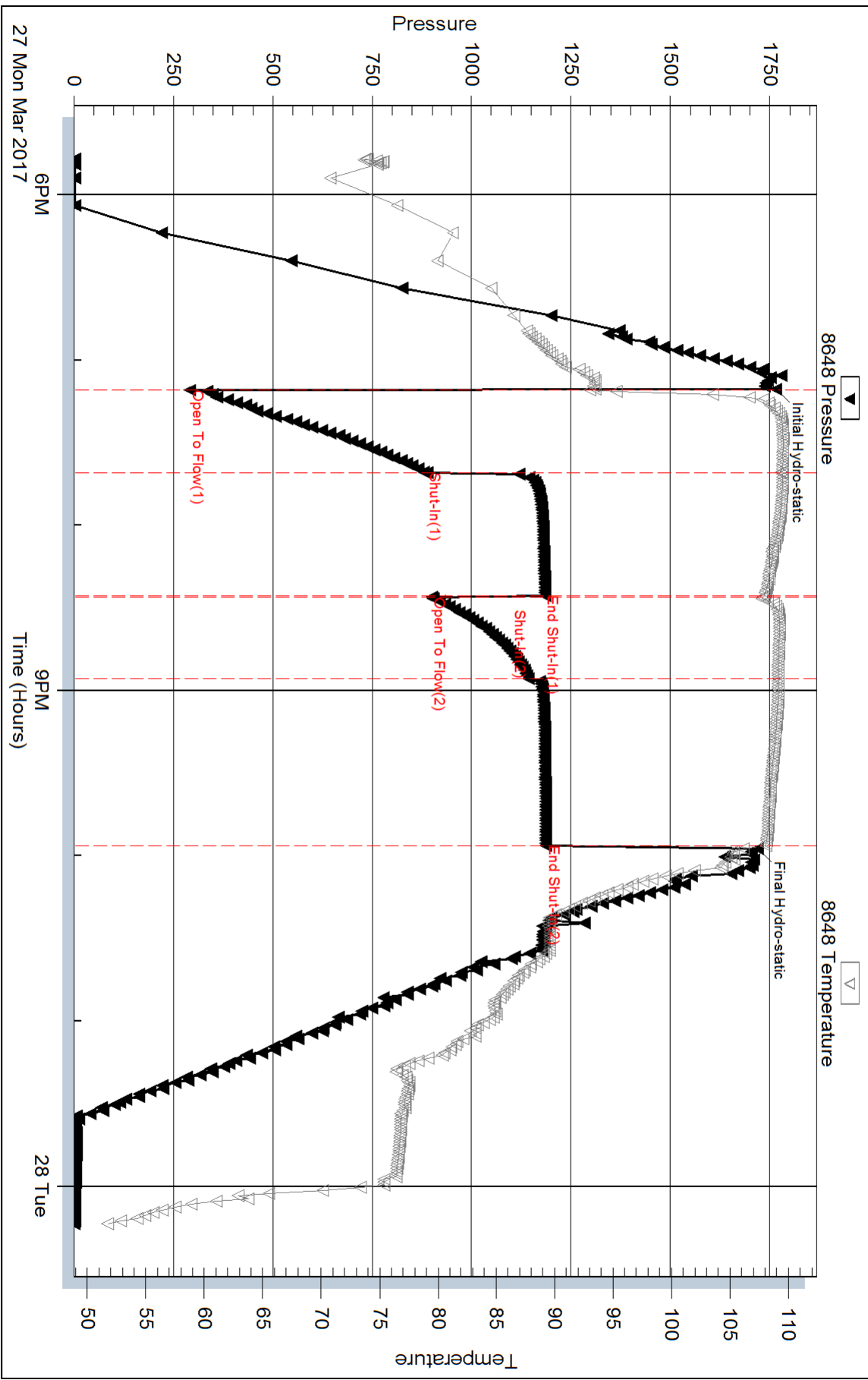
Serial #:

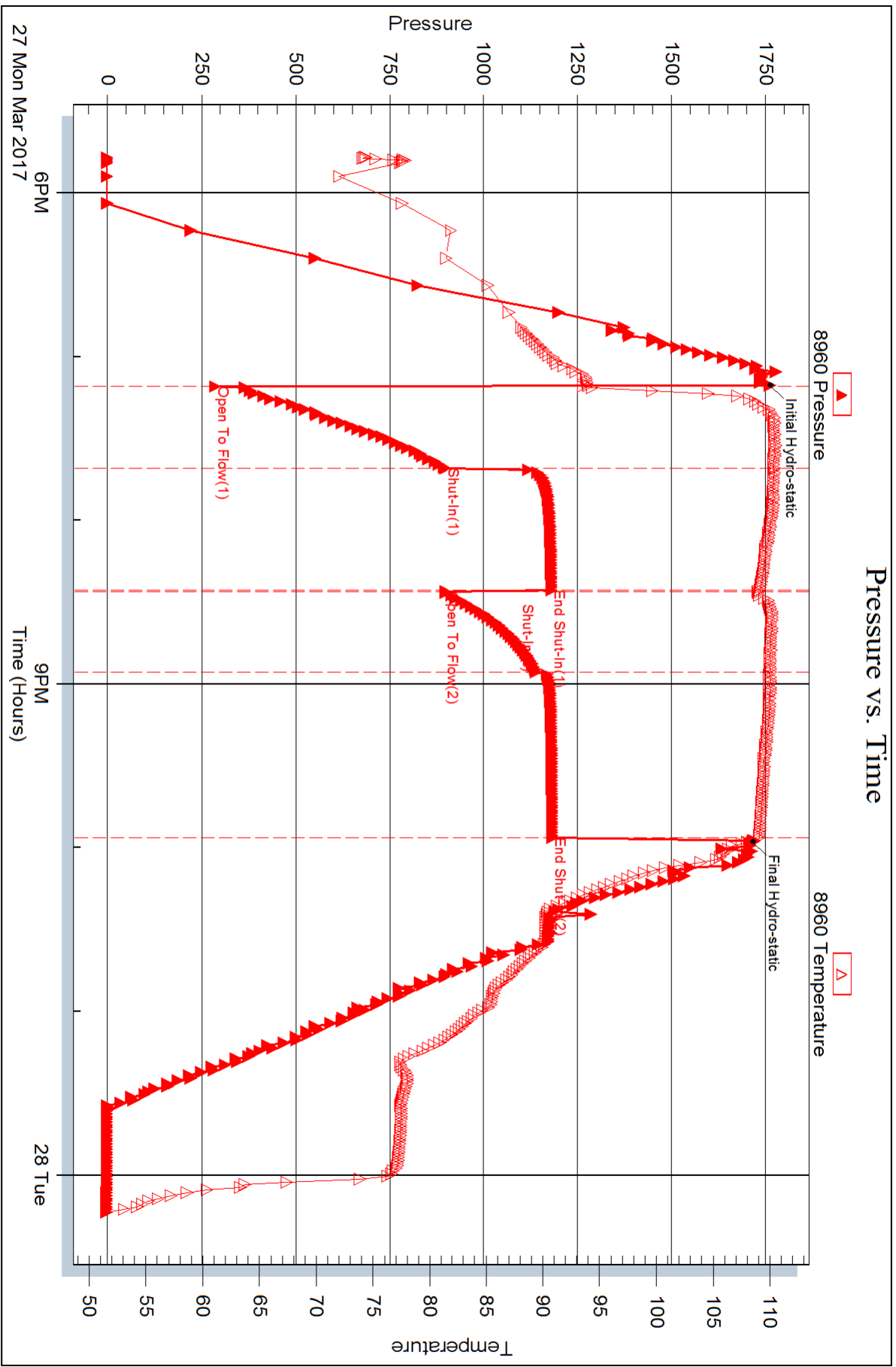
Laboratory Name:

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:

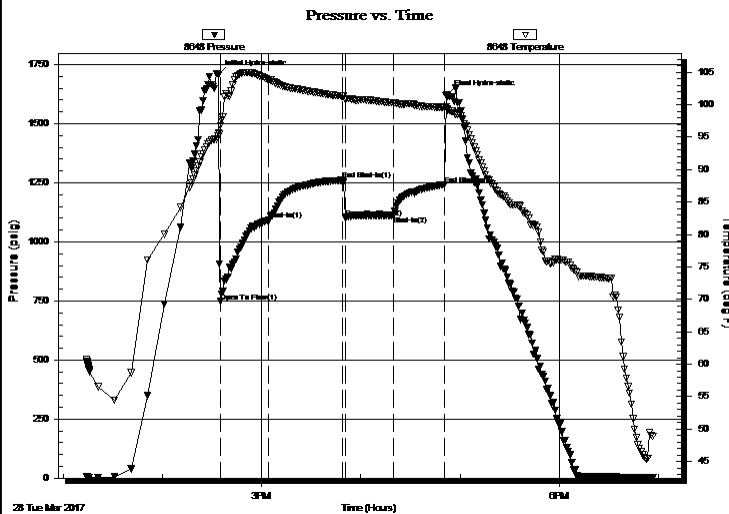
2017.03.28 @ 16:52:00

**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:

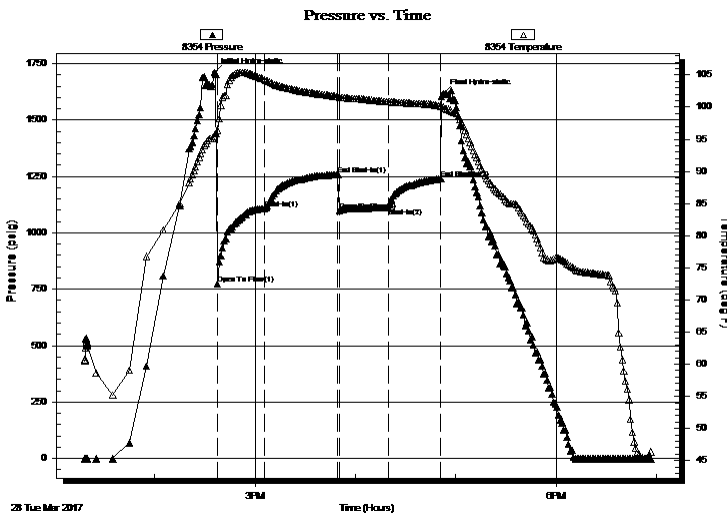
2017.03.28 @ 14:35:30

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

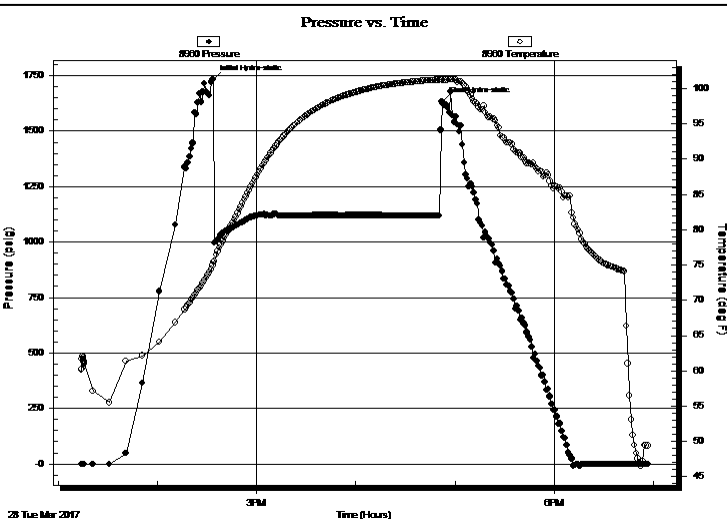
Last Calib.: 2017.03.28

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**

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
<b>Total Tool Length:</b>	<b>283.68</b>				



**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 in<sup>3</sup>

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

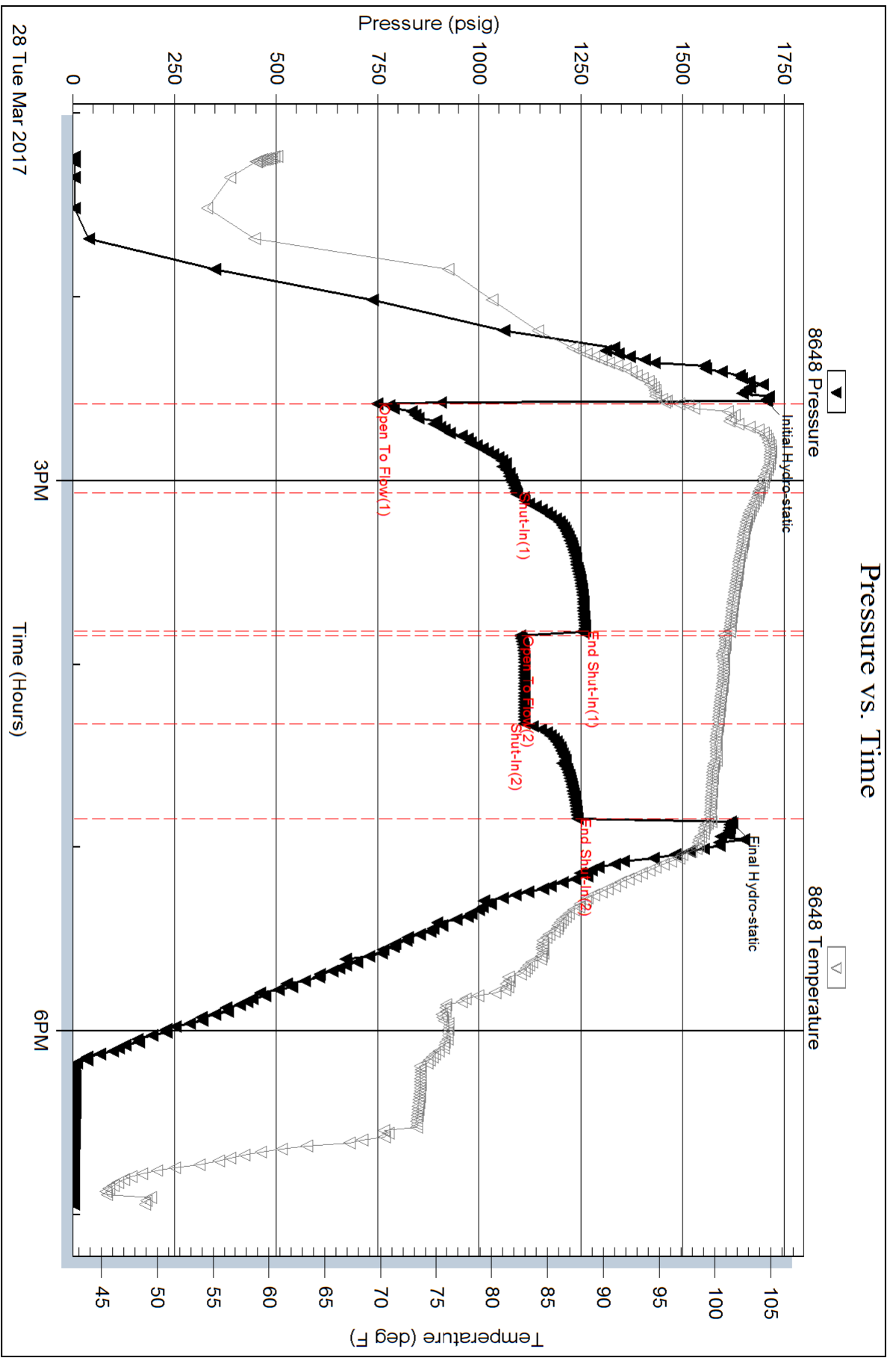
Num Gas Bombs: 0

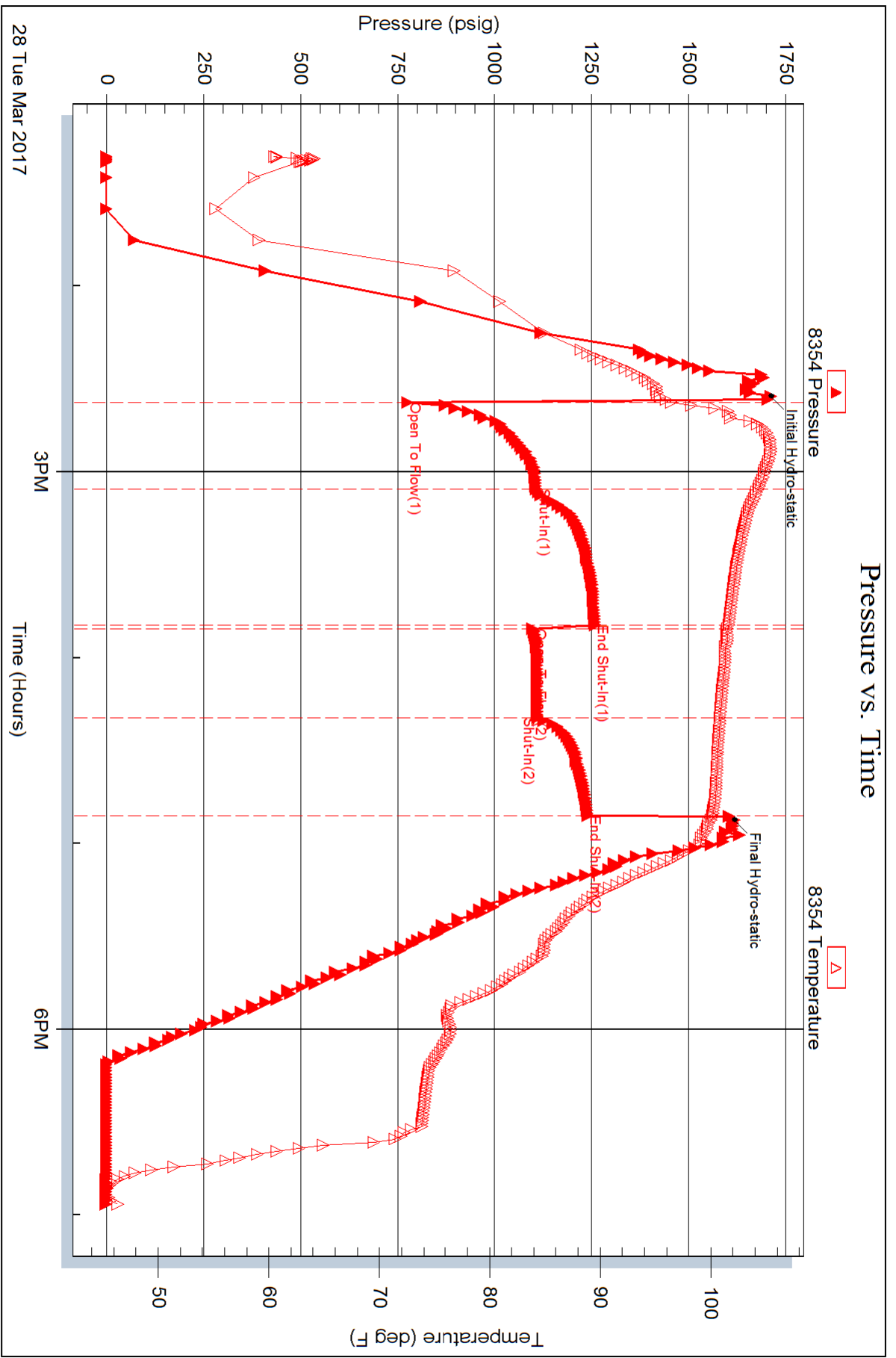
Serial #:

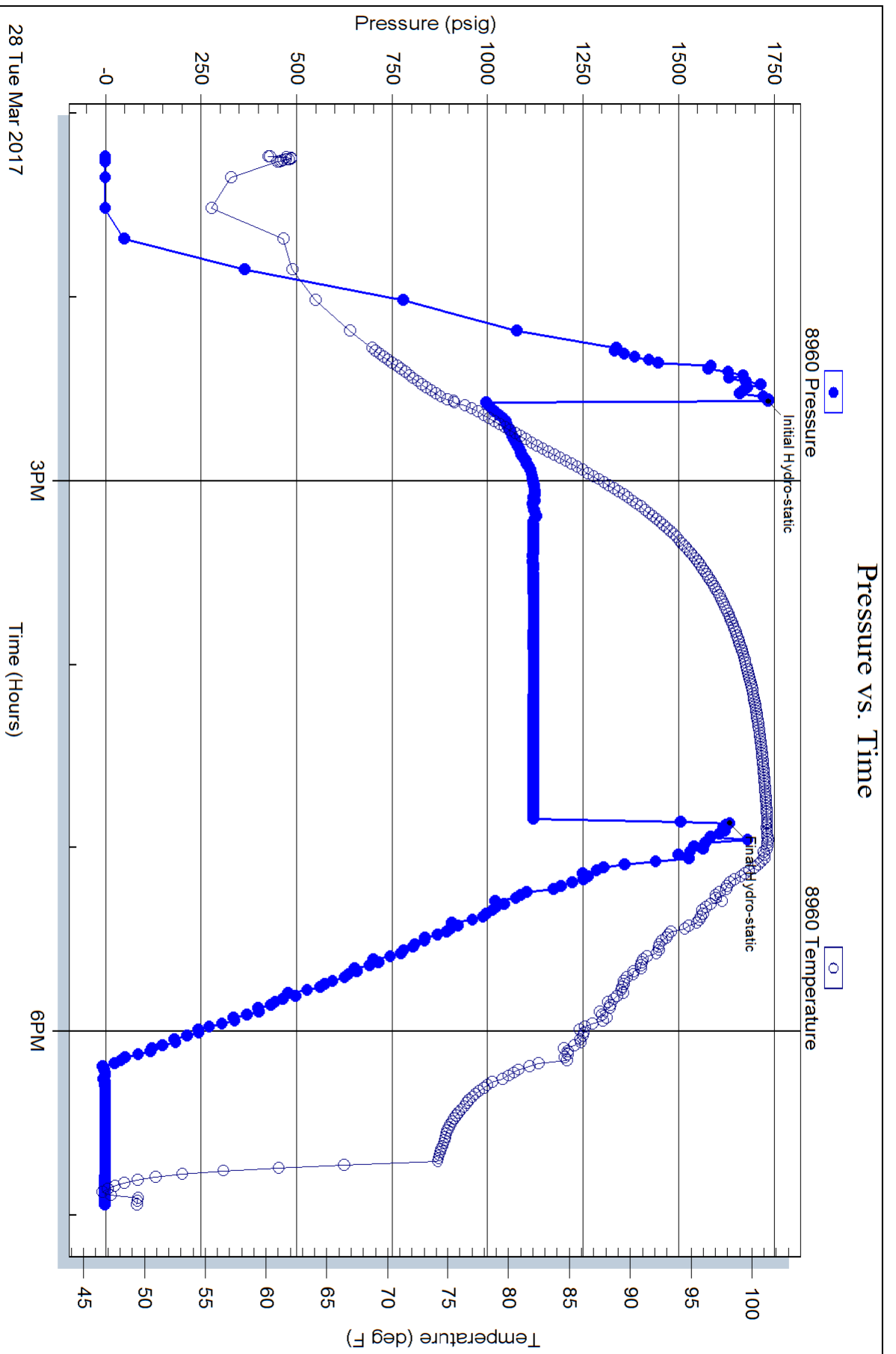
Laboratory Name:

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

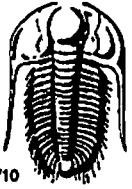
Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>Mud w/ water w/ show of oil</u>			<u>60</u>	<u>40</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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 _____	<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. 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>	

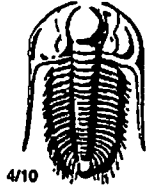
Rec Total 15 BHT 92 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

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]  
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# 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

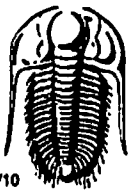
Rec	Feet of	%gas	%oil	%water	%mud
<u>165</u>	<u>Muddy Water</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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]

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# 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

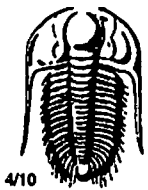
Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>Mud</u>				<u>100%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total <u>180</u>	BHT	Gravity	API RW	@	°F Chlorides ppm

(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

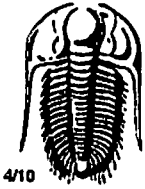
Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>Mud</u>				<u>100</u>

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]

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# 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

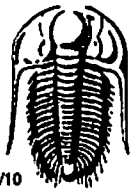
Rec	Feet of	%gas	%oil	%water	%mud
<u>2480</u>	<u>Muddy Water</u>		<u>9.5</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec 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]

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# 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]

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**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 3/29/2017  
**Invoice # 133**

P.O.#:  
 Due Date: 4/28/2017  
 Division: Russell

# Invoice

*Pd. # 51421 \$3,906.96*

*21890*

Contact:

Address/Job Location:

*Landmark Resources  
 1616 S. Voss, Suite 600  
 Houston TX 77057*

RECEIVED  
 APR 1 8 ENTB

Reference:

JONES 1-25 SEC 25-10-18

Description of Work:

PLUG JOB

Services / Items Included:

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 601.97	Yes				
Common-Class A	174	\$ 1,948.80	Yes				
POZ Mix-Standard	116	\$ 547.86	Yes				
Bulk Truck Matl-Material Service Charge	300	\$ 202.41	Yes				
Premium Gel (Bentonite)	10	\$ 195.66	Yes				
Flo Seal	72	\$ 97.16	Yes				
Pump Truck Mileage-Job to Nearest Camp	21	\$ 63.76	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	\$ 49.59	Yes				
Dry Hole Plug	1	\$ 37.78	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 3,744.98

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (93.62)

SubTotal for Taxable Items: \$ 3,651.36

SubTotal for Non-Taxable Items: \$ -

Total: \$ 3,651.36

Tax: \$ 255.60

7.00% Rooks County Sales Tax

**Amount Due: \$ 3,906.96**

Applied Payments:

**Balance Due: \$ 3,906.96**

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 133

Date	3-29-17	Sec.	25	Twp.	10	Range	18	County	Rooks	State	KS	On Location		Finish	1:00 AM
Location								Nays 18 N CLR 1E 1/2 S W10							

Lease	Jones	Well No.	1-25	Owner	To Quality Oilwell Cementing, Inc.
Contractor	Munden #16	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job	Rotary Plug				
Hole Size	7 7/8 X-HDP	T.D.	3700	Charge To	Land mark
Csg.		Depth		Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	290 <sup>60</sup> / 40 4 1/2 1/4 #10
Meas Line		Displace			

**EQUIPMENT**

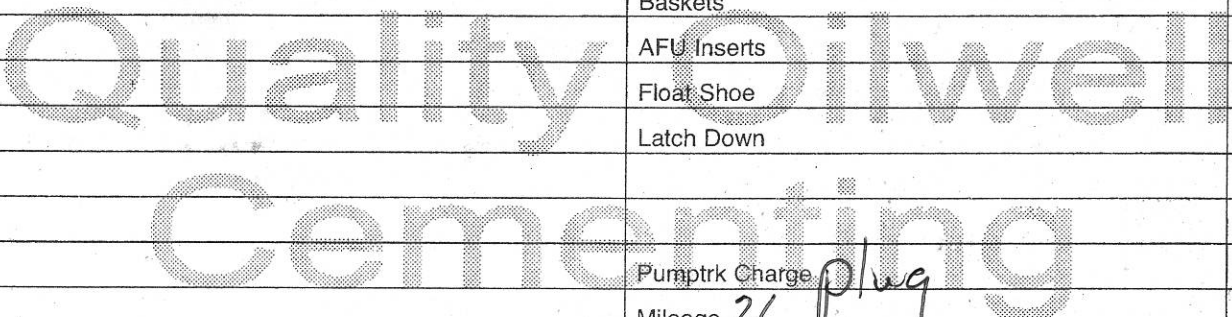
Pumptrk	5	No.	Cement	174
			Helper	116
Bulktrk		No.	Driver	10
			Driver	
Bulktrk	14	No.	Driver	
			Driver	

**JOB SERVICES & REMARKS**

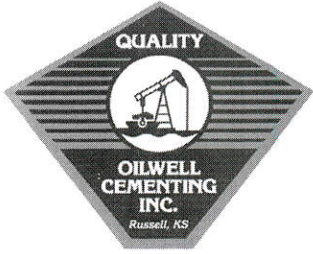
Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal 72#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
1st	Sand
2nd	Handling 300
3rd	Mileage

**FLOAT EQUIPMENT**

4th	Guide Shoe
5th	Centralizer 8 5/8 Dry Hole Plug
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down



Pumptrk Charge	Plug	Tax	
Mileage	21	Discount	
Signature		Total Charge	



**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 3/21/2017  
 Invoice # 128

P.O.#:  
 Due Date: 4/20/2017  
 Division: Russell

# Invoice

**Contact:**

**Address/Job Location:**

Landmark Resources  
 11016 S. Voss Rd Ste 600  
 Houston TX 77057-2641

7/1730 P.O.  
 # 51374  
 RECEIVED  
 MAR 29 2017 13424.21

**Reference:**

JONES 1-25 SEC 25-10-18

**Description of Work:**

SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 489.84	No				
Common-Class A	200	\$ 2,187.29	Yes				
Calcium Chloride	8	\$ 295.15	Yes				
Bulk Truck Matl-Material Service Charge	212	\$ 139.67	No				
Pump Truck Mileage-Job to Nearest Camp	21	\$ 62.26	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	21	\$ 48.42	No				
Premium Gel (Bentonite)	4	\$ 76.42	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 3,330.68  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (83.27)

SubTotal for Taxable Items: \$ 2,525.73  
 SubTotal for Non-Taxable Items: \$ 721.68

7.00% Ellis County Sales Tax

Total: \$ 3,247.41  
 Tax: \$ 176.80

**Thank You For Your Business!**

**Amount Due: \$ 3,424.21**  
**Applied Payments:**  
**Balance Due: \$ 3,424.21**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 128

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-21-17	25	10	18	Rooks	KS		8:30 am
Lease				Well No.		Owner	
Jones				1-25		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.	
Contractor				Type Job		Charge To	
Martin #16				Surface		Landmark Resources	
Hole Size		T.D.		Street		City State	
12 1/4		290					
Csg.		Depth		The above was done to satisfaction and supervision of owner agent or contractor.		Cement Amount Ordered	
8 5/8		290				200 com 3-1-16 2-1-16	
Tbg. Size		Depth		Cement Left in Csg.		Shoe Joint	
				15			
Tool		Depth		Meas Line		Displace	
						17 1/2	
EQUIPMENT				Common		200	
Pumptrk		Cement		Poz. Mix			
5 No.		Helper Craig					
Bulktrk		Driver Brett		Gel.		4	
15 No.		Driver David		Calcium		8	
JOB SERVICES & REMARKS				Hulls			
Remarks: Cement 1.36 Yield				Salt			
Rat Hole 14.8 # P.G.				Flowseal			
Mouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
8 5/8 on bottom - Est Circulation.				Handling		212	
Mix 2000 + Displace				Mileage			
Cement Circulated				FLOAT EQUIPMENT			
				Guide Shoe			
				Centralizer		8 5/8 surge	
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge		Surface	
				Mileage		21	
X Signature <i>Ray Littel</i>				Tax			
				Discount			
				Total Charge			