



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1153373  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1153373

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  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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	Decker 2-17
Doc ID	1153373

All Electric Logs Run

Sonic Cement Bond Log
Dual Ind./ Neutron-Density Sonic Composite Log
Borehole Compensated Sonic Log
Dual Induction Log
Microresistivity Log
Dual Compensated Porosity Log

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	Decker 2-17
Doc ID	1153373

Tops

Name	Top	Datum
Anhydrite	2450	703
B/ Anhydrite	2469	684
Stotler	3632	-479
Topeka	3778	-625
Heebner Shale	4016	-863
Toronto	4035	-882
Lansing	4065	-912
Muncie Creek Shale	4246	-1093
Stark Shale	4344	-1191
Hushpuckney Shale	4400	-1247
Marmaton	4510	-1357
Pawnee	4578	-1425
Myrick Station (FS)	4612	-1459
Fort Scott	4628	-1475
Cherokee Shale	4652	-1499
Johnson Zone	4713'	-1560
Morrow Shale	4795	-1642
Morrow Sand	4871	-1718
Mississippian	4891	-1738



## DRILL STEM TEST REPORT

Prepared For: **Landmark Resource Inc**

1616 S Voss Rd Ste 600  
Houston, TX 77057

ATTN: Wes Hansen

### **Decker #2-17**

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

Start Date: 2013.05.20 @ 17:11:00

End Date: 2013.05.21 @ 00:53:30

Job Ticket #: 51374                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.31 @ 09:50:46







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
Job Ticket: 51374      **DST#: 1**  
Test Start: 2013.05.20 @ 17:11:00

**Tool Information**

Drill Pipe:	Length: 4043.00 ft	Diameter: 3.80 inches	Volume: 56.71 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: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 57.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4246.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Stubb	1.00			4219.00	
Shut In Tool	5.00			4224.00	
Hydraulic tool	5.00			4229.00	
Jars	5.00			4234.00	
Safety Joint	3.00			4237.00	
Packer	5.00			4242.00	28.00      Bottom Of Top Packer
Packer	4.00			4246.00	
Stubb	1.00			4247.00	
Recorder	0.00	8373	Inside	4247.00	
Recorder	0.00	8356	Outside	4247.00	
Perforations	16.00			4263.00	
Bullnose	5.00			4268.00	22.00      Bottom Packers & Anchor

**Total Tool Length: 50.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
Job Ticket: 51374      **DST#: 1**  
Test Start: 2013.05.20 @ 17:11:00

## Mud and Cushion Information

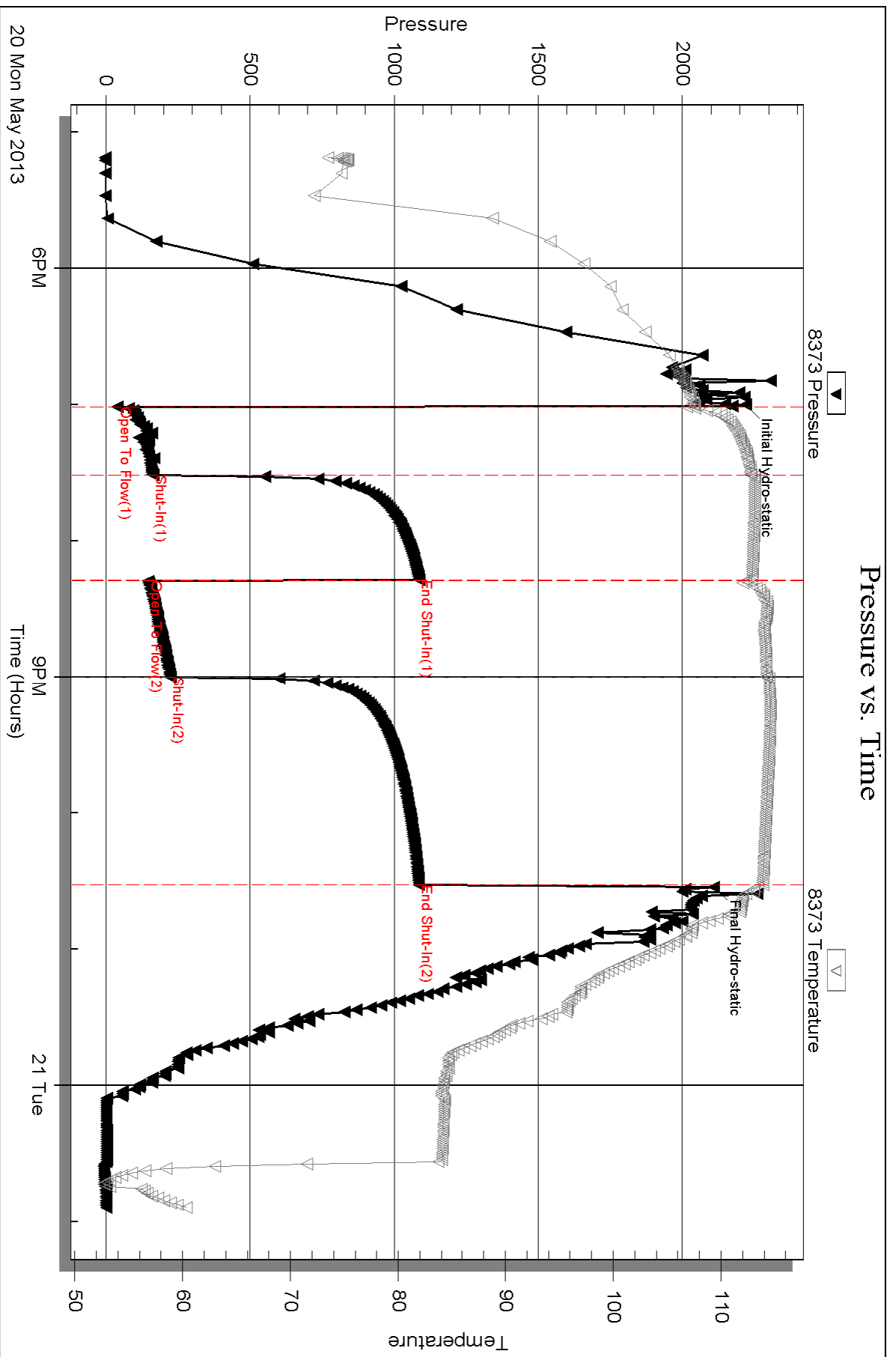
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 34000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.37 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 9000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcw 90%w 10%m	0.610
124.00	gocmw 10%g 30%o 50%w 10%m	1.229
124.00	mw cgo 20%g 40%o 30%w 10%m	1.739
124.00	ocm 50%o 50%m	1.739

Total Length: 496.00 ft      Total Volume: 5.317 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: .26@56=34000

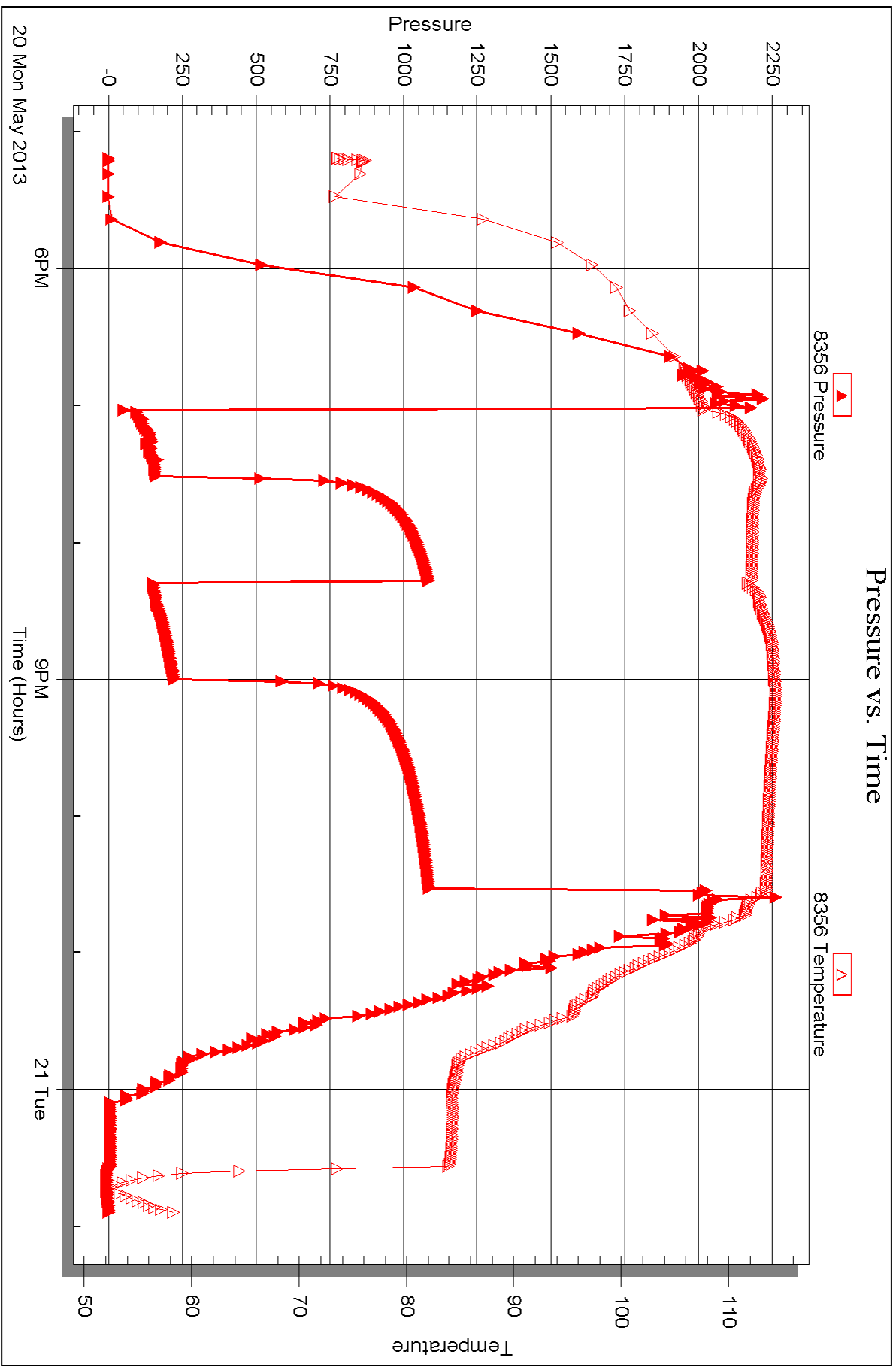


Serial #: 8356

Outside Landmark Resource Inc

Decker #2-17

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Landmark Resource Inc**

1616 S Voss Rd Ste 600  
Houston, TX 77057

ATTN: Wes Hansen

### **Decker #2-17**

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

Start Date: 2013.05.21 @ 14:56:50

End Date: 2013.05.21 @ 22:31:20

Job Ticket #: 51375                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.31 @ 09:49:10



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
 Job Ticket: 51375 **DST#: 2**  
 Test Start: 2013.05.21 @ 14:56:50

## GENERAL INFORMATION:

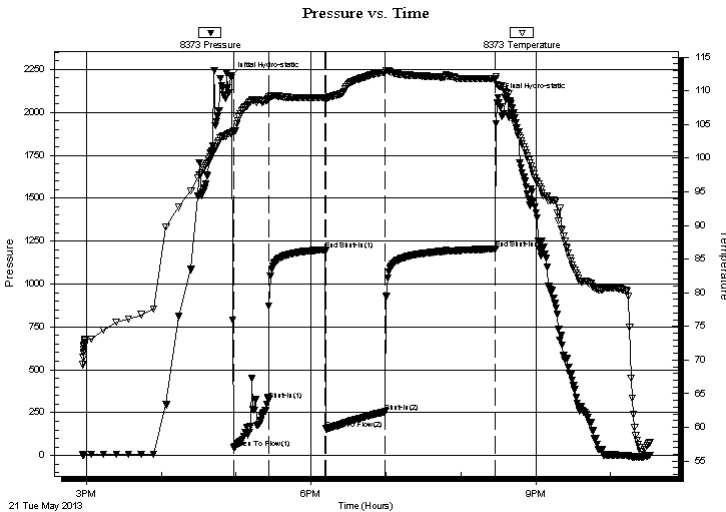
Formation: **Lansing I-J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:58:20  
 Time Test Ended: 22:31:20  
 Interval: **4280.00 ft (KB) To 4340.00 ft (KB) (TVD)**  
 Total Depth: 4340.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 3153.00 ft (KB)  
 3143.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8373 Inside**  
 Press @ Run Depth: 255.29 psig @ 4281.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.05.21 End Date: 2013.05.21 Last Calib.: 2013.05.21  
 Start Time: 14:56:55 End Time: 22:31:19 Time On Btm: 2013.05.21 @ 16:55:50  
 Time Off Btm: 2013.05.21 @ 20:29:50

**TEST COMMENT:** IF: BOB in 16 min.  
 IS: No return.  
 FF: BOB in 19 min.  
 FS: No return.

## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2210.91	103.67	Initial Hydro-static
3	44.41	103.99	Open To Flow (1)
30	325.03	108.74	Shut-In(1)
75	1199.81	108.95	End Shut-In(1)
76	155.72	108.65	Open To Flow (2)
124	255.29	112.73	Shut-In(2)
212	1203.44	111.77	End Shut-In(2)
214	2084.76	110.78	Final Hydro-static



## Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcw 80%w 20%m	0.97
248.00	ocw m 10%o 10%w 80%m	3.48
93.00	ocm 5%o 95%m	1.30

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
Job Ticket: 51375      **DST#: 2**  
Test Start: 2013.05.21 @ 14:56:50

**Tool Information**

Drill Pipe:	Length: 4102.00 ft	Diameter: 3.80 inches	Volume: 57.54 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: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 58.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4280.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Stubb	1.00			4253.00	
Shut In Tool	5.00			4258.00	
Hydraulic tool	5.00			4263.00	
Jars	5.00			4268.00	
Safety Joint	3.00			4271.00	
Packer	5.00			4276.00	28.00      Bottom Of Top Packer
Packer	4.00			4280.00	
Stubb	1.00			4281.00	
Recorder	0.00	8373	Inside	4281.00	
Recorder	0.00	8356	Outside	4281.00	
Perforations	20.00			4301.00	
Change Over Sub	1.00			4302.00	
Drill Pipe	32.00			4334.00	
Change Over Sub	1.00			4335.00	
Bullnose	5.00			4340.00	60.00      Bottom Packers & Anchor

**Total Tool Length: 88.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Landmark Resource Inc

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

1616 S Voss Rd Ste 600  
Houston, TX 77057

**Decker #2-17**

Job Ticket: 51375

**DST#: 2**

ATTN: Wes Hansen

Test Start: 2013.05.21 @ 14:56:50

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

34000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.56 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
186.00	mcw 80%w 20%m	0.969
248.00	ocw m 10%o 10%w 80%m	3.479
93.00	ocm 5%o 95%m	1.305

Total Length: 527.00 ft      Total Volume: 5.753 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

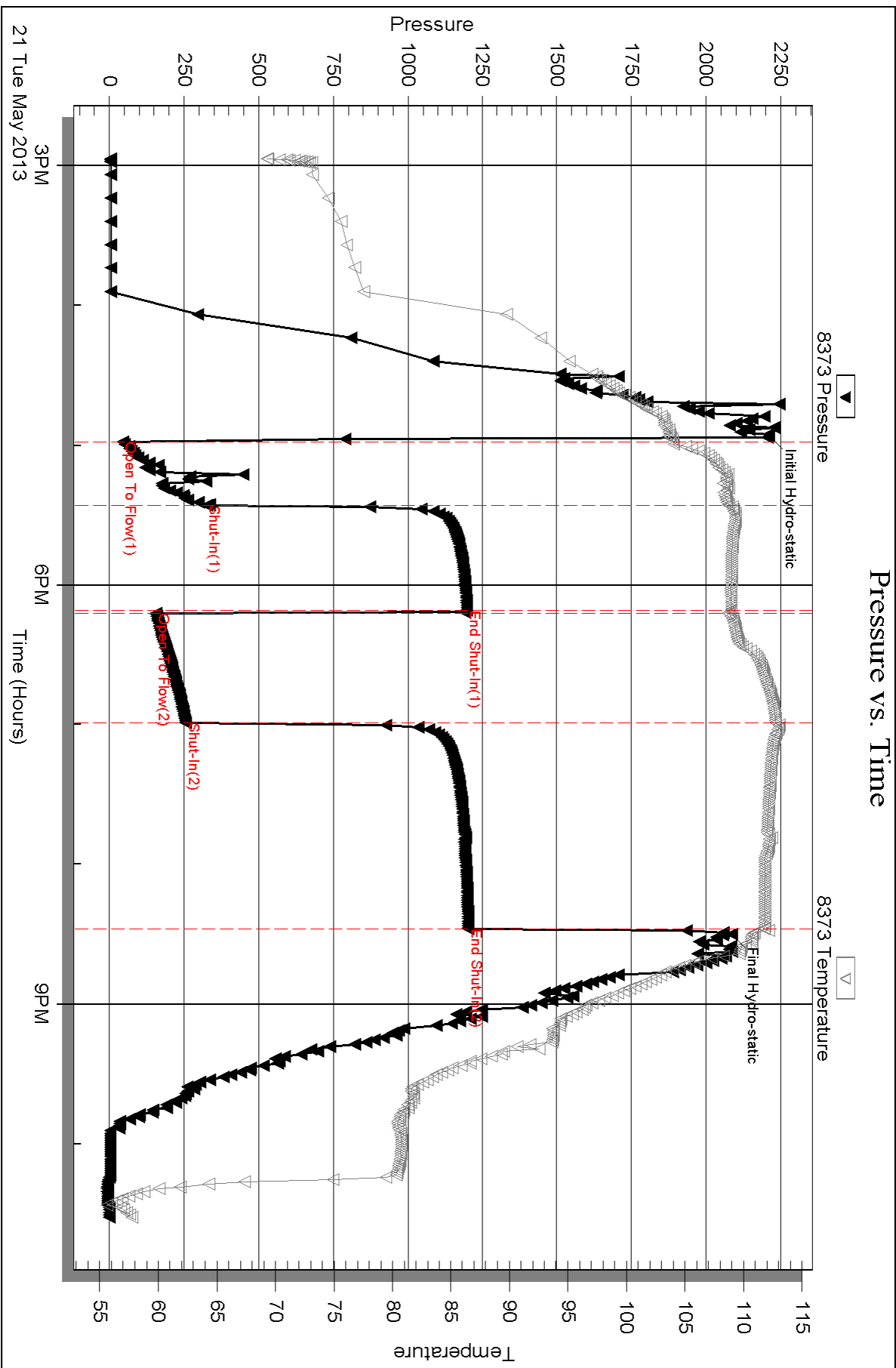
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .24@61=34000



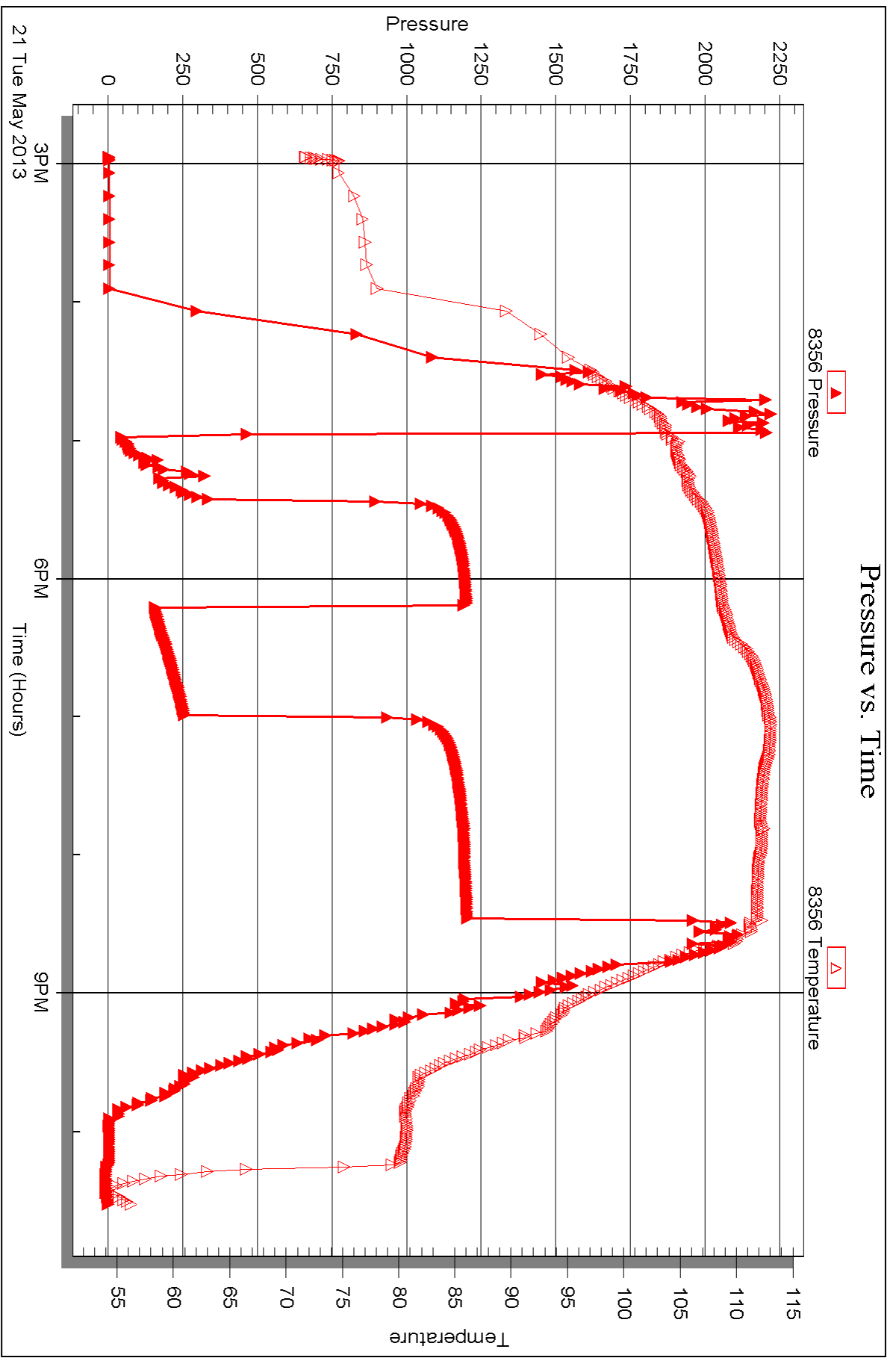


Serial #: 8356

Outside Landmark Resource Inc

Decker #2-17

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Landmark Resource Inc**

1616 S Voss Rd Ste 600  
Houston, TX 77057

ATTN: Wes Hansen

### **Decker #2-17**

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

Start Date: 2013.05.22 @ 15:25:30

End Date: 2013.05.22 @ 20:51:30

Job Ticket #: 53151                      DST #: 3

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

Printed: 2013.05.31 @ 09:48:30

Landmark Resource Inc  
17-17s-34w Scott,KS  
Decker #2-17  
DST # 3  
KC L/ Pleasanton  
2013.05.22



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
 Job Ticket: 53151 **DST#: 3**  
 Test Start: 2013.05.22 @ 15:25:30

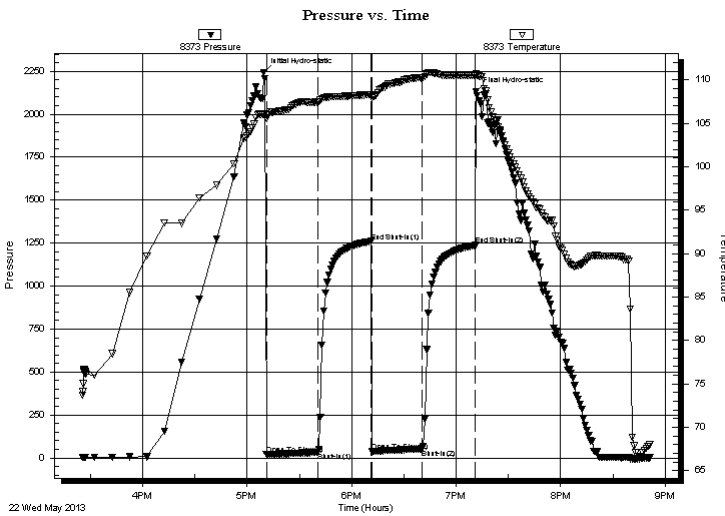
## GENERAL INFORMATION:

Formation: **KC L/ Pleasanton**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 17:11:00 Tester: Brandon Turley  
 Time Test Ended: 20:51:30 Unit No: 60  
 Interval: **4446.00 ft (KB) To 4472.00 ft (KB) (TVD)** Reference Elevations: 3153.00 ft (KB)  
 Total Depth: 4472.00 ft (KB) (TVD) 3143.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

**Serial #: 8373 Inside**  
 Press @ Run Depth: 52.65 psig @ 4447.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.05.22 End Date: 2013.05.22 Last Calib.: 2013.05.22  
 Start Time: 15:25:35 End Time: 20:51:29 Time On Btm: 2013.05.22 @ 17:09:30  
 Time Off Btm: 2013.05.22 @ 19:11:30

**TEST COMMENT:** IF: Surface blow died in 6 min.  
 IS: No return.  
 FF: No blow.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2243.30	106.05	Initial Hydro-static
2	22.74	105.54	Open To Flow (1)
31	32.47	107.49	Shut-In(1)
62	1259.34	108.32	End Shut-In(1)
62	37.16	107.91	Open To Flow (2)
91	52.65	110.21	Shut-In(2)
122	1237.27	110.48	End Shut-In(2)
122	2133.83	110.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
59.00	ocm 5%o 95%m	0.29
1.00	free oil 100%o	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
Job Ticket: 53151      **DST#: 3**  
Test Start: 2013.05.22 @ 15:25:30

**Tool Information**

Drill Pipe:	Length: 4262.00 ft	Diameter: 3.80 inches	Volume: 59.78 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: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4446.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Stubb	1.00			4419.00	
Shut In Tool	5.00			4424.00	
Hydraulic tool	5.00			4429.00	
Jars	5.00			4434.00	
Safety Joint	3.00			4437.00	
Packer	5.00			4442.00	28.00      Bottom Of Top Packer
Packer	4.00			4446.00	
Stubb	1.00			4447.00	
Recorder	0.00	8373	Inside	4447.00	
Recorder	0.00	8356	Outside	4447.00	
Perforations	20.00			4467.00	
Bullnose	5.00			4472.00	26.00      Bottom Packers & Anchor

**Total Tool Length: 54.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
Job Ticket: 53151      **DST#: 3**  
Test Start: 2013.05.22 @ 15:25:30

## Mud and Cushion Information

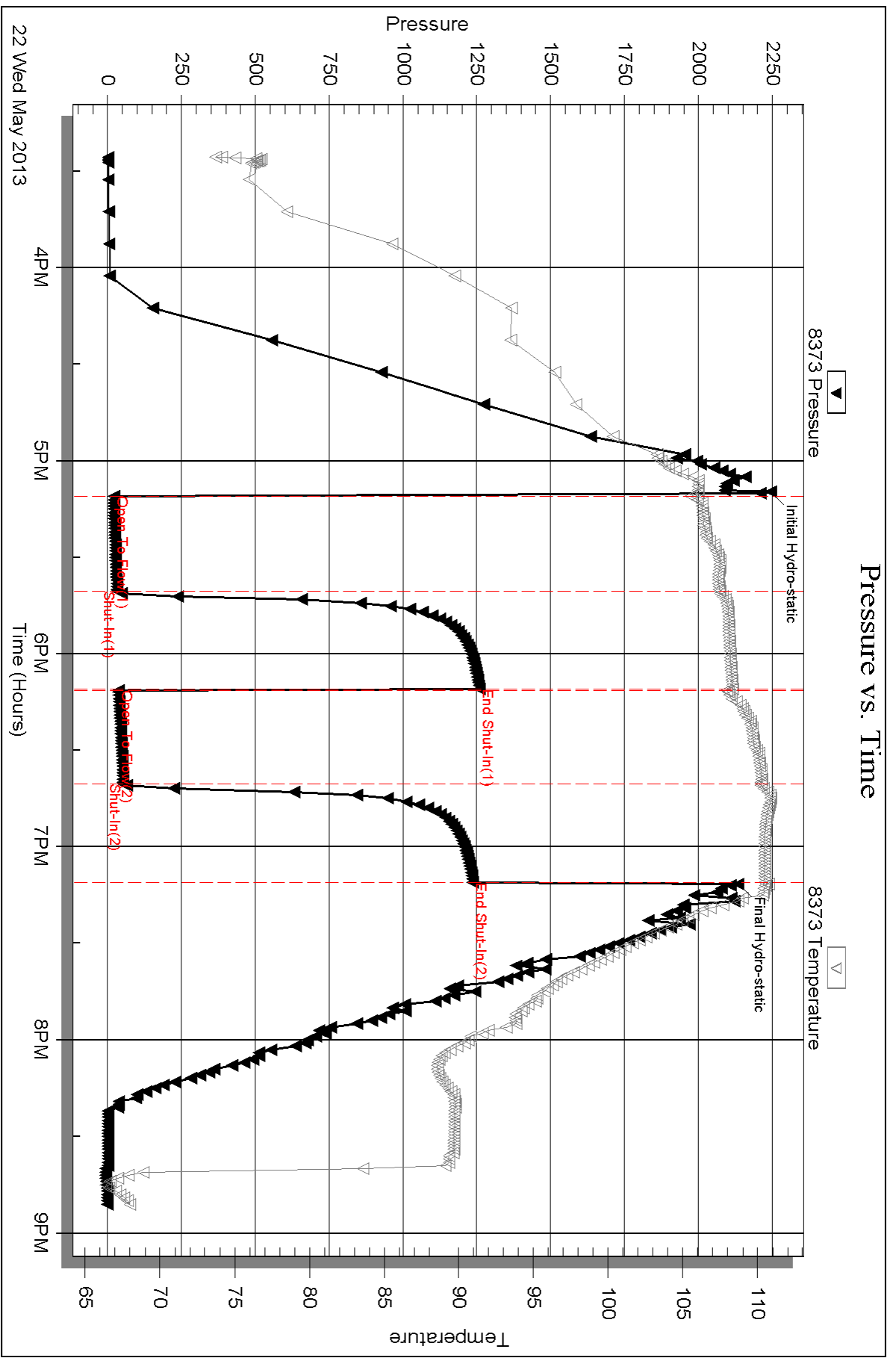
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
59.00	ocm 5%o 95%m	0.290
1.00	free oil 100%o	0.005

Total Length: 60.00 ft      Total Volume: 0.295 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



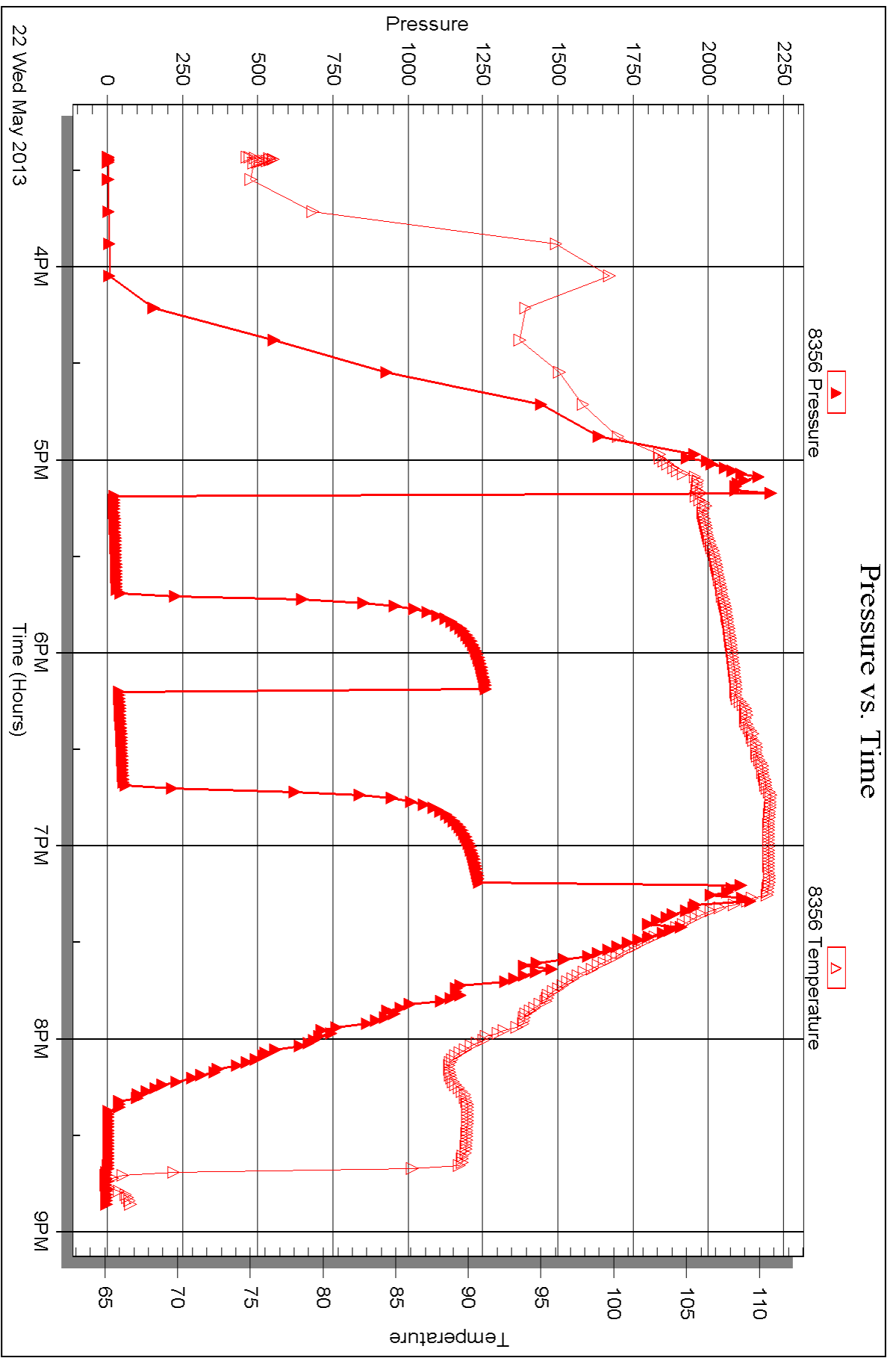


Serial #: 8356

Outside Landmark Resource Inc

Decker #2-17

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 53151

Printed: 2013.05.31 @ 09:48:34



## DRILL STEM TEST REPORT

Prepared For: **Landmark Resource Inc**

1616 S Voss Rd Ste 600  
Houston, TX 77057

ATTN: Wes Hansen

### **Decker #2-17**

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

Start Date: 2013.05.23 @ 09:25:06

End Date: 2013.05.23 @ 17:43:06

Job Ticket #: 53152                      DST #: 4

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

Printed: 2013.05.31 @ 09:47:43



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
 Job Ticket: 53152 **DST#: 4**  
 Test Start: 2013.05.23 @ 09:25:06

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:39:06  
 Time Test Ended: 17:43:06  
**Interval: 4472.00 ft (KB) To 4530.00 ft (KB) (TVD)**  
 Total Depth: 4530.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 3153.00 ft (KB)  
 3143.00 ft (CF)  
 KB to GR/CF: 10.00 ft

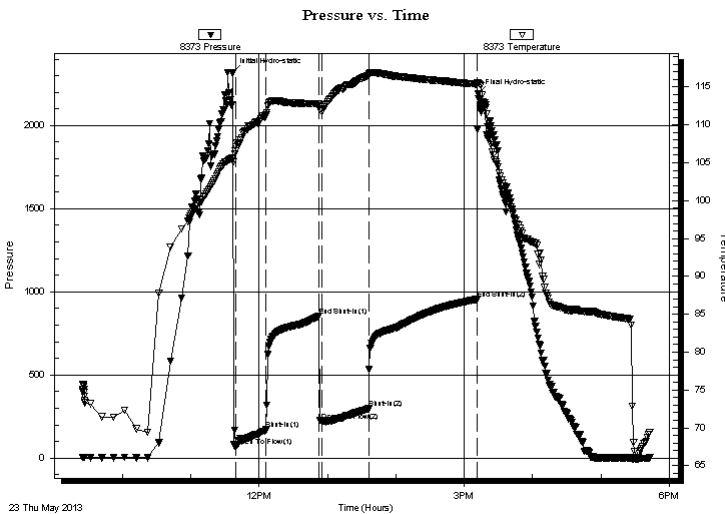
## Serial #: 8373

Inside

Press @ Run Depth: 297.94 psig @ 4473.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.05.23 End Date: 2013.05.23 Last Calib.: 2013.05.23  
 Start Time: 09:25:11 End Time: 17:43:05 Time On Btm: 2013.05.23 @ 11:36:36  
 Time Off Btm: 2013.05.23 @ 15:12:06

TEST COMMENT: IF: BOB in 8 min.  
 IS: BOB in 35 min.  
 FF: BOB in 8 min.  
 FS: BOB in 50 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2316.25	105.58	Initial Hydro-static
3	68.65	106.51	Open To Flow (1)
30	171.59	111.30	Shut-In(1)
76	855.73	112.76	End Shut-In(1)
78	223.44	111.86	Open To Flow (2)
120	297.94	116.57	Shut-In(2)
215	954.90	115.39	End Shut-In(2)
216	2190.37	115.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcgo 20%g 60%o 20%m	0.61
248.00	mcgo 30%g 50%o 20%m	2.97
465.00	go 30%g 70%o	6.52

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
Job Ticket: 53152      **DST#: 4**  
Test Start: 2013.05.23 @ 09:25:06

**Tool Information**

Drill Pipe:	Length: 4294.00 ft	Diameter: 3.80 inches	Volume: 60.23 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: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4472.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Stubb	1.00			4445.00	
Shut In Tool	5.00			4450.00	
Hydraulic tool	5.00			4455.00	
Jars	5.00			4460.00	
Safety Joint	3.00			4463.00	
Packer	5.00			4468.00	28.00      Bottom Of Top Packer
Packer	4.00			4472.00	
Stubb	1.00			4473.00	
Recorder	0.00	8373	Inside	4473.00	
Recorder	0.00	8356	Outside	4473.00	
Perforations	18.00			4491.00	
Change Over Sub	1.00			4492.00	
Drill Pipe	32.00			4524.00	
Change Over Sub	1.00			4525.00	
Bullnose	5.00			4530.00	58.00      Bottom Packers & Anchor

**Total Tool Length: 86.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
Job Ticket: 53152      **DST#: 4**  
Test Start: 2013.05.23 @ 09:25:06

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 29 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.77 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 7000.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcgo 20%g 60%o 20%m	0.610
248.00	mcgo 30%g 50%o 20%m	2.969
465.00	go 30%g 70%o	6.523

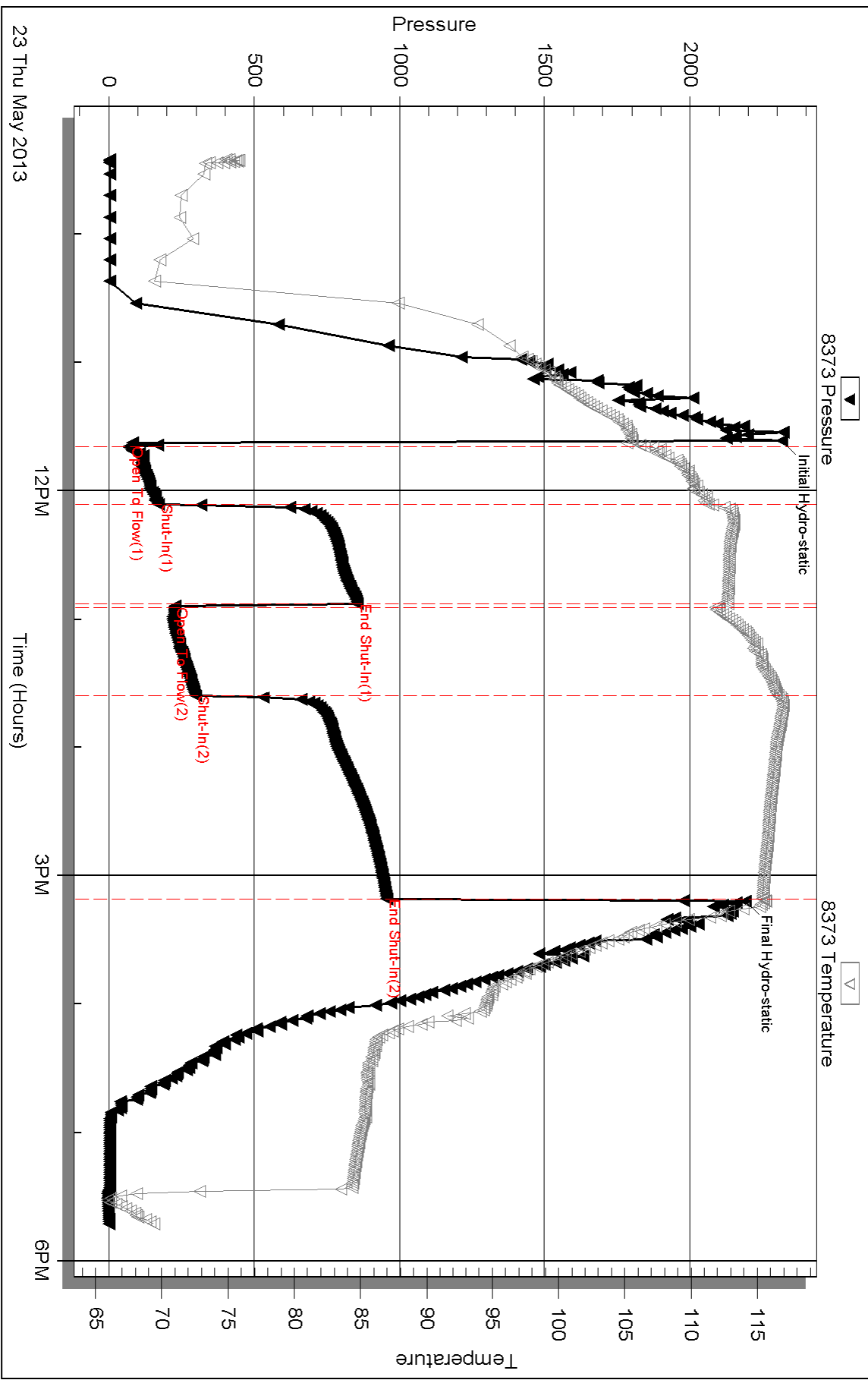
Total Length: 837.00 ft      Total Volume: 10.102 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: 30@70=29

### Pressure vs. Time

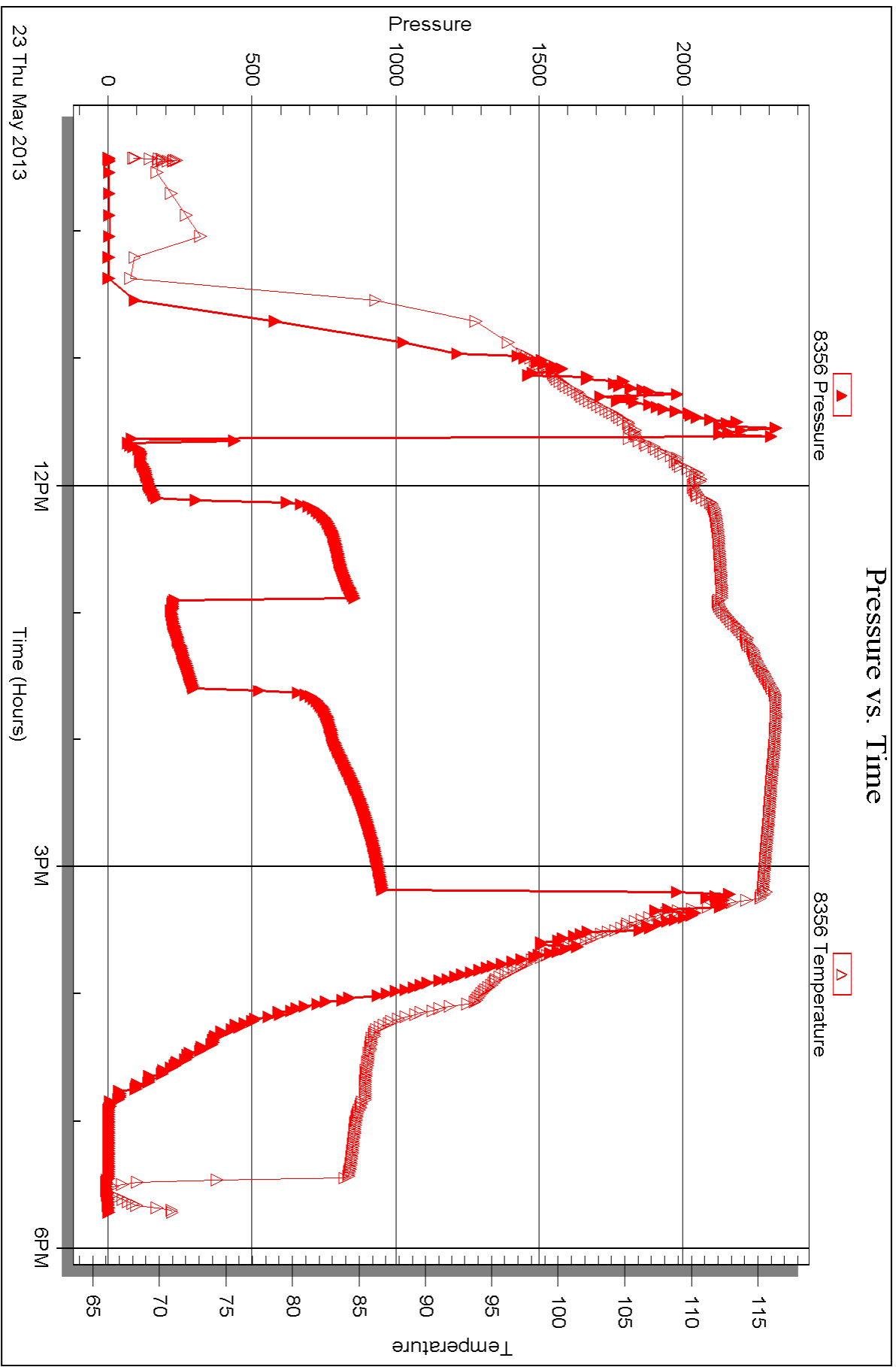


Serial #: 8356

Outside Landmark Resource Inc

Decker #2-17

DST Test Number: 4



23 Thu May 2013

Triobite Testing, Inc

Ref. No: 53152

Printed: 2013.05.31 @ 09:47:46





## DRILL STEM TEST REPORT

Prepared For: **Landmark Resource Inc**

1616 S Voss Rd Ste 600  
Houston, TX 77057

ATTN: Wes Hansen

### **Decker #2-17**

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

Start Date: 2013.05.24 @ 06:14:37

End Date: 2013.05.24 @ 14:49:07

Job Ticket #: 53153                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.31 @ 09:46:43



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
 Job Ticket: 53153 **DST#: 5**  
 Test Start: 2013.05.24 @ 06:14:37

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:16:37  
 Time Test Ended: 14:49:07  
 Interval: **4530.00 ft (KB) To 4584.00 ft (KB) (TVD)**  
 Total Depth: 4584.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 60  
 Reference Elevations: 3153.00 ft (KB)  
 3143.00 ft (CF)  
 KB to GR/CF: 10.00 ft

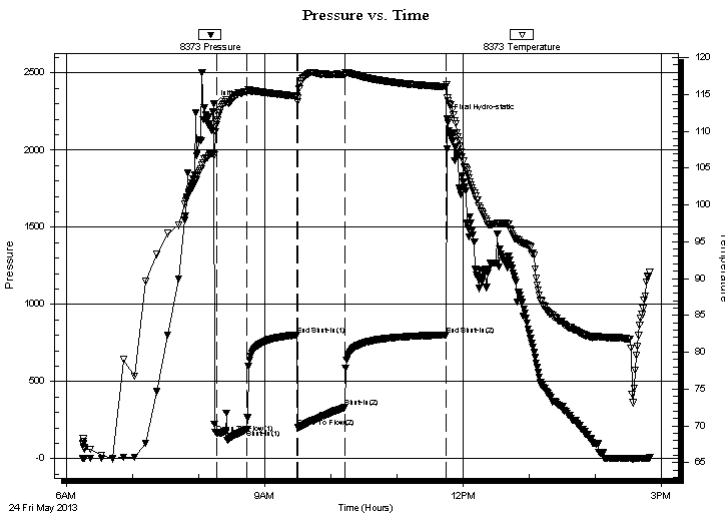
## Serial #: 8373

Inside

Press @ Run Depth: 331.50 psig @ 4531.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.05.24 End Date: 2013.05.24 Last Calib.: 2013.05.24  
 Start Time: 06:14:42 End Time: 14:49:07 Time On Btm: 2013.05.24 @ 08:13:37  
 Time Off Btm: 2013.05.24 @ 11:45:37

TEST COMMENT: IF: BOB in 4 min.  
 IS: Surface blow built to 8" in 45 min.  
 FF: BOB in 8 min.  
 FS: Surface blow BOB in 45 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2297.60	106.98	Initial Hydro-static
3	167.02	111.20	Open To Flow (1)
30	188.28	115.35	Shut-In(1)
76	801.98	114.74	End Shut-In(1)
76	200.31	113.98	Open To Flow (2)
119	331.50	117.71	Shut-In(2)
211	801.97	116.01	End Shut-In(2)
212	2203.90	114.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcgo 10%g 50%o 40%m	0.61
248.00	mcgo 10%g 80%o 10%m	2.97
608.00	go 20%g 80%o	8.53
0.00	1004 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
Job Ticket: 53153      **DST#: 5**  
Test Start: 2013.05.24 @ 06:14:37

**Tool Information**

Drill Pipe:	Length: 4352.00 ft	Diameter: 3.80 inches	Volume: 61.05 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: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 61.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4530.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Stubb	1.00			4503.00	
Shut In Tool	5.00			4508.00	
Hydraulic tool	5.00			4513.00	
Jars	5.00			4518.00	
Safety Joint	3.00			4521.00	
Packer	5.00			4526.00	28.00      Bottom Of Top Packer
Packer	4.00			4530.00	
Stubb	1.00			4531.00	
Recorder	0.00	8373	Inside	4531.00	
Recorder	0.00	8356	Outside	4531.00	
Perforations	15.00			4546.00	
Change Over Sub	1.00			4547.00	
Drill Pipe	31.00			4578.00	
Change Over Sub	1.00			4579.00	
Bullnose	5.00			4584.00	54.00      Bottom Packers & Anchor

**Total Tool Length: 82.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
Job Ticket: 53153      **DST#: 5**  
Test Start: 2013.05.24 @ 06:14:37

## Mud and Cushion Information

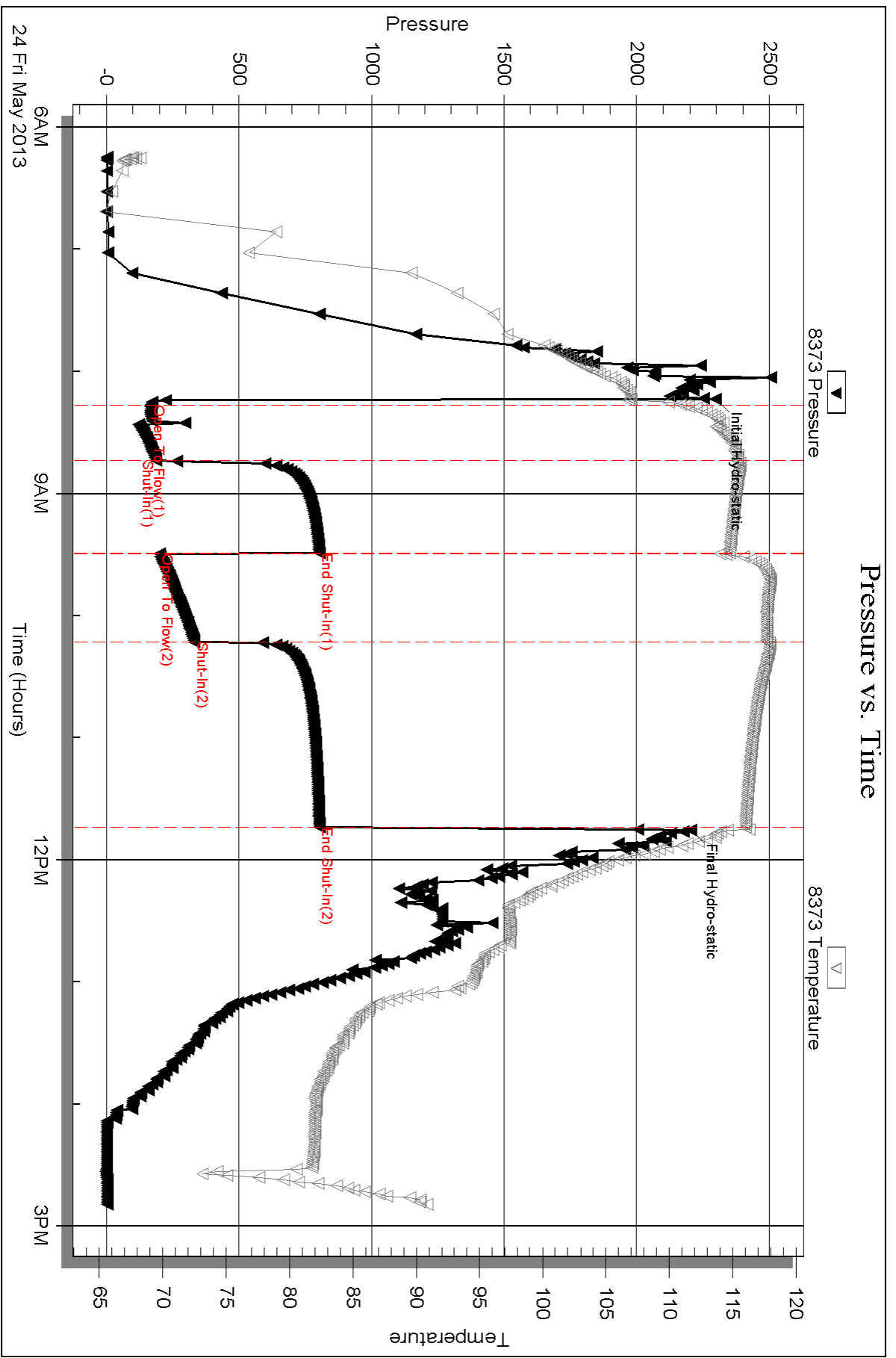
Mud Type: Gel Chem	Cushion Type:	Oil API: 29 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.77 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 7000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcgo 10%g 50%o 40%m	0.610
248.00	mcgo 10%g 80%o 10%m	2.969
608.00	go 20%g 80%o	8.529
0.00	1004 GIP	0.000

Total Length: 980.00 ft      Total Volume: 12.108 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: 31@80=29

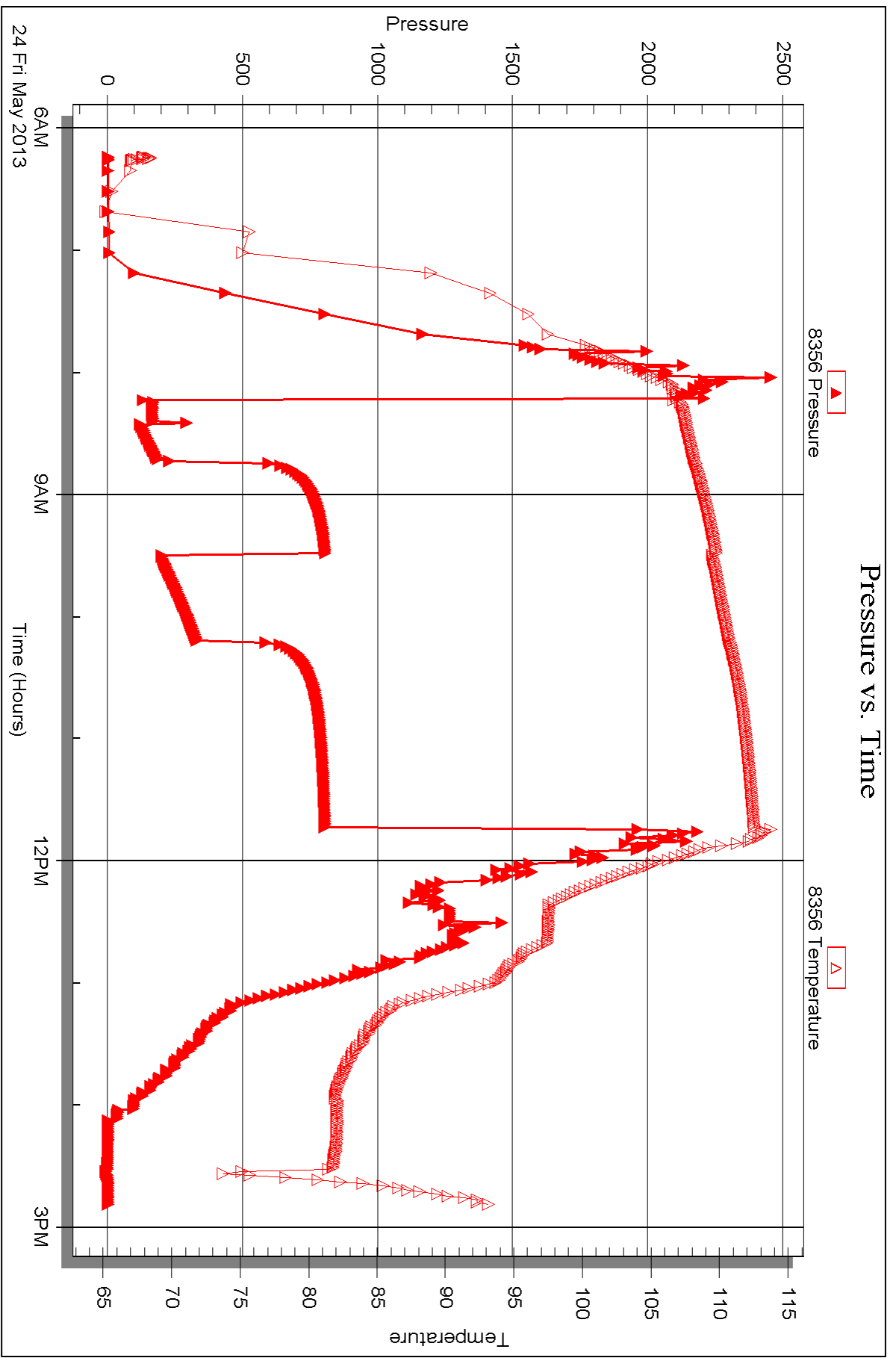


Serial #: 8356

Outside Landmark Resource Inc

Decker #2-17

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 53153

Printed: 2013.05.31 @ 09:46:46



## DRILL STEM TEST REPORT

Prepared For: **Landmark Resource Inc**

1616 S Voss Rd Ste 600  
Houston, TX 77057

ATTN: Wes Hansen

### **Decker #2-17**

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

Start Date: 2013.05.25 @ 03:26:28

End Date: 2013.05.25 @ 09:03:58

Job Ticket #: 53154                      DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.31 @ 09:45:42

Landmark Resource Inc

17-17s-34w Scott,KS

Decker #2-17

DST # 6

Pawnee/Myrickstation

2013.05.25





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
 Job Ticket: 53154 **DST#: 6**  
 Test Start: 2013.05.25 @ 03:26:28

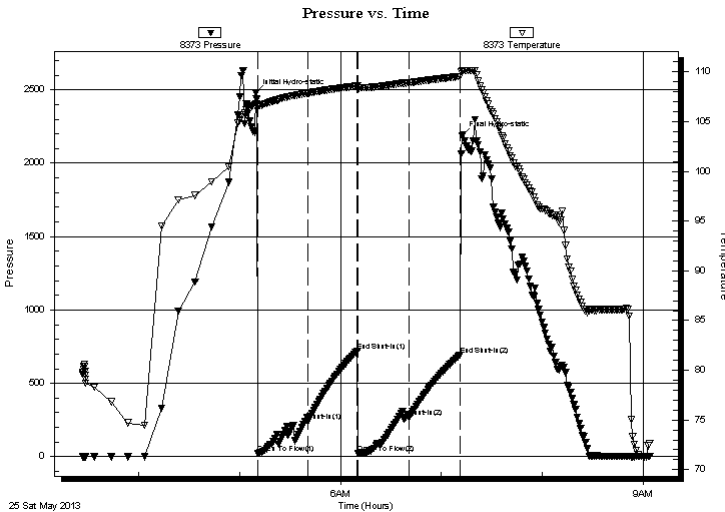
## GENERAL INFORMATION:

Formation: **Pawnee/Myrickstation**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 05:10:58 Tester: Brandon Turley/ Corn  
 Time Test Ended: 09:03:58 Unit No: 60  
 Interval: **4574.00 ft (KB) To 4660.00 ft (KB) (TVD)** Reference Elevations: 3153.00 ft (KB)  
 Total Depth: 4660.00 ft (KB) (TVD) 3143.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 10.00 ft

**Serial #: 8373 Inside**  
 Press @ Run Depth: 270.54 psig @ 4575.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.05.25 End Date: 2013.05.25 Last Calib.: 2013.05.25  
 Start Time: 03:26:33 End Time: 09:03:57 Time On Btm: 2013.05.25 @ 05:09:28  
 Time Off Btm: 2013.05.25 @ 07:12:28

**TEST COMMENT:** IF: Surface blow - died in 4 min  
 IS: No return  
 FF: No blow  
 FS: No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2477.48	106.75	Initial Hydro-static
2	24.59	106.50	Open To Flow (1)
31	243.00	107.85	Shut-In(1)
61	721.78	108.58	End Shut-In(1)
61	24.21	108.22	Open To Flow (2)
92	270.54	108.89	Shut-In(2)
122	691.43	109.53	End Shut-In(2)
123	2189.51	110.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
Job Ticket: 53154      **DST#: 6**  
Test Start: 2013.05.25 @ 03:26:28

**Tool Information**

Drill Pipe:	Length: 4389.00 ft	Diameter: 3.80 inches	Volume: 61.57 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: 30000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 62.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4574.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	114.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Stubb	1.00			4547.00	
Shut In Tool	5.00			4552.00	
Hydraulic tool	5.00			4557.00	
Jars	5.00			4562.00	
Safety Joint	3.00			4565.00	
Packer	5.00			4570.00	28.00      Bottom Of Top Packer
Packer	4.00			4574.00	
Stubb	1.00			4575.00	
Recorder	0.00	8373	Inside	4575.00	
Recorder	0.00	8356	Outside	4575.00	
Perforations	15.00			4590.00	
Change Over Sub	1.00			4591.00	
Drill Pipe	63.00			4654.00	
Change Over Sub	1.00			4655.00	
Bullnose	5.00			4660.00	86.00      Bottom Packers & Anchor

**Total Tool Length: 114.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
Job Ticket: 53154      **DST#: 6**  
Test Start: 2013.05.25 @ 03:26:28

## Mud and Cushion Information

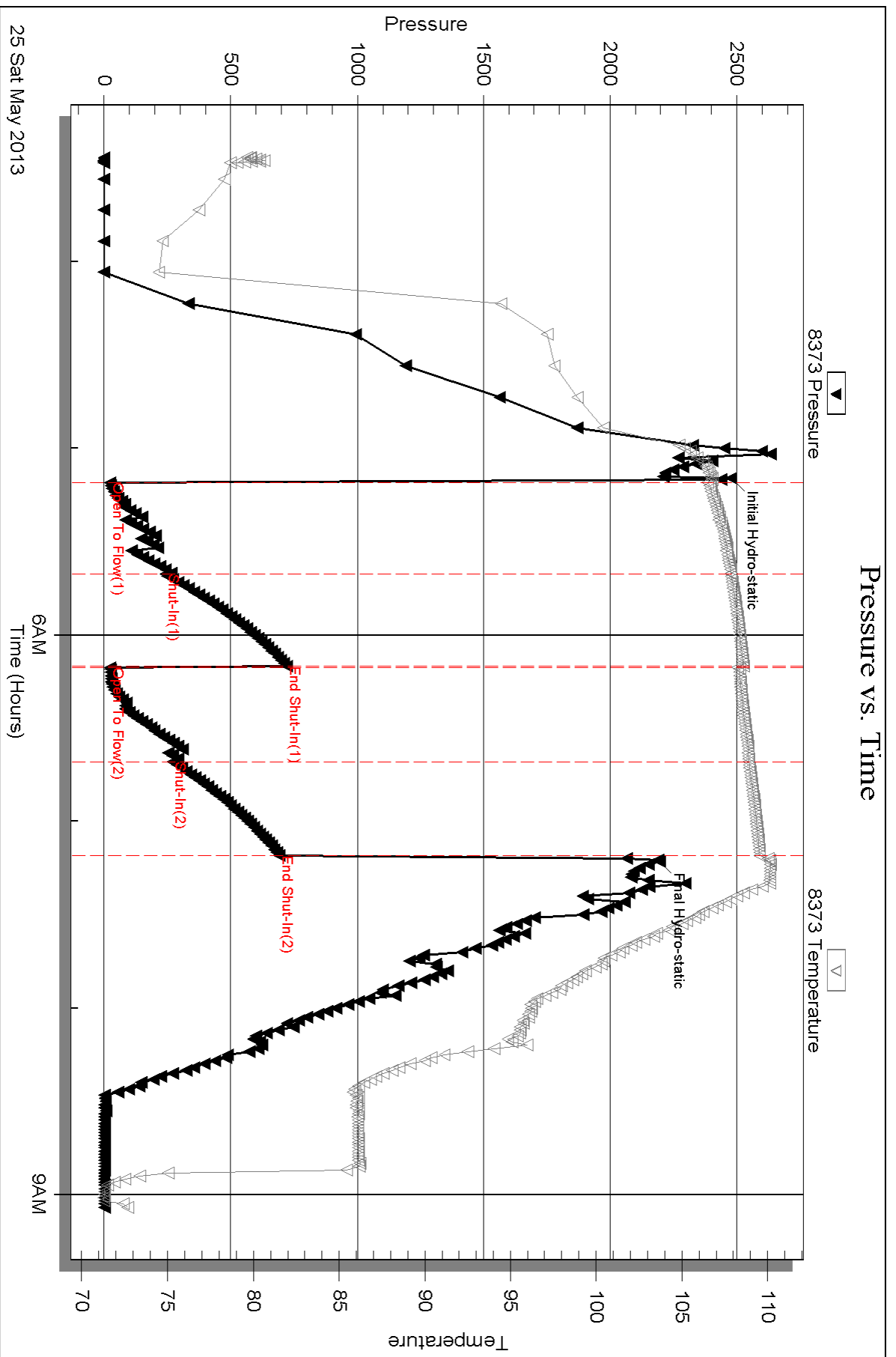
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.57 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 8200.00 ppm		
Filter Cake: 1.00 inches		

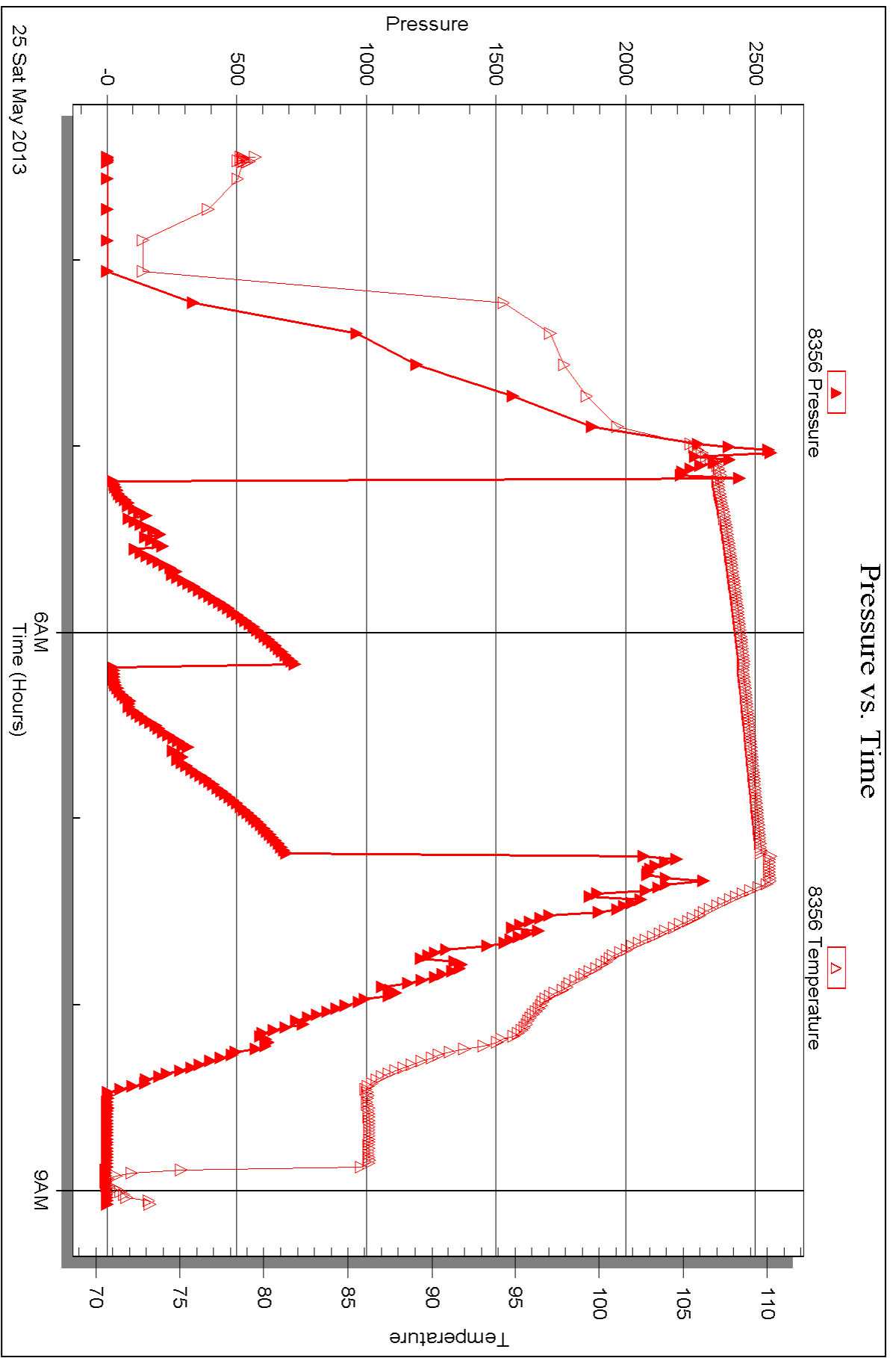
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Landmark Resource Inc**

1616 S Voss Rd Ste 600  
Houston, TX 77057

ATTN: Wes Hansen

### **Decker #2-17**

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

Start Date: 2013.05.26 @ 05:22:06

End Date: 2013.05.26 @ 11:26:06

Job Ticket #: 53155                      DST #: 7

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.31 @ 09:44:55



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
Job Ticket: 53155      **DST#: 7**  
Test Start: 2013.05.26 @ 05:22:06

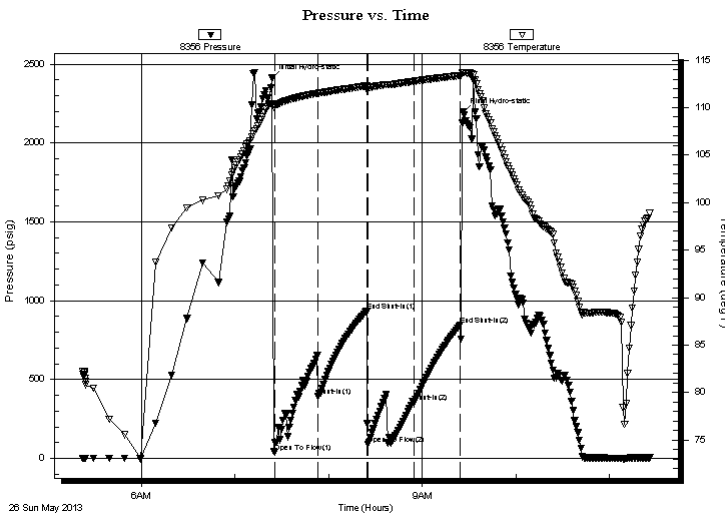
## GENERAL INFORMATION:

Formation: **Johnson**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 07:25:06  
Time Test Ended: 11:26:06  
Interval: **4710.00 ft (KB) To 4800.00 ft (KB) (TVD)**  
Total Depth: 4800.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brandon Turley/Corne  
Unit No: 60  
Reference Elevations: 3153.00 ft (KB)  
3143.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8356      Outside**  
Press @ Run Depth: 352.72 psig @ 4791.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.05.26      End Date: 2013.05.26      Last Calib.: 2013.05.26  
Start Time: 05:22:11      End Time: 11:26:05      Time On Btm: 2013.05.26 @ 07:23:36  
Time Off Btm: 2013.05.26 @ 09:26:06

**TEST COMMENT:** IF: 1/4" blow died in 8 min  
IS: No return  
FF: No blow  
FS: No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2410.91	110.33	Initial Hydro-static
2	39.25	110.17	Open To Flow (1)
30	394.81	111.51	Shut-In(1)
61	931.88	112.28	End Shut-In(1)
62	89.95	112.13	Open To Flow (2)
91	352.72	112.77	Shut-In(2)
121	844.26	113.38	End Shut-In(2)
123	2194.63	113.69	Final Hydro-static

## Recovery

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

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
Job Ticket: 53155      **DST#: 7**  
Test Start: 2013.05.26 @ 05:22:06

**Tool Information**

Drill Pipe:	Length: 4596.00 ft	Diameter: 3.80 inches	Volume: 64.47 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: 25000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 65.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4790.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	118.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Stubb	1.00			4763.00	
Shut In Tool	5.00			4768.00	
Hydraulic tool	5.00			4773.00	
Jars	5.00			4778.00	
Safety Joint	3.00			4781.00	
Packer	5.00			4786.00	28.00      Bottom Of Top Packer
Packer	4.00			4790.00	
Stubb	1.00			4791.00	
Recorder	0.00	8373	Inside	4791.00	
Recorder	0.00	8356	Outside	4791.00	
Perforations	19.00			4810.00	
Change Over Sub	1.00			4811.00	
Drill Pipe	63.00			4874.00	
Change Over Sub	1.00			4875.00	
Bullnose	5.00			4880.00	90.00      Bottom Packers & Anchor

**Total Tool Length: 118.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

**17-17s-34w Scott,KS**  
**Decker #2-17**  
Job Ticket: 53155      **DST#: 7**  
Test Start: 2013.05.26 @ 05:22:06

## Mud and Cushion Information

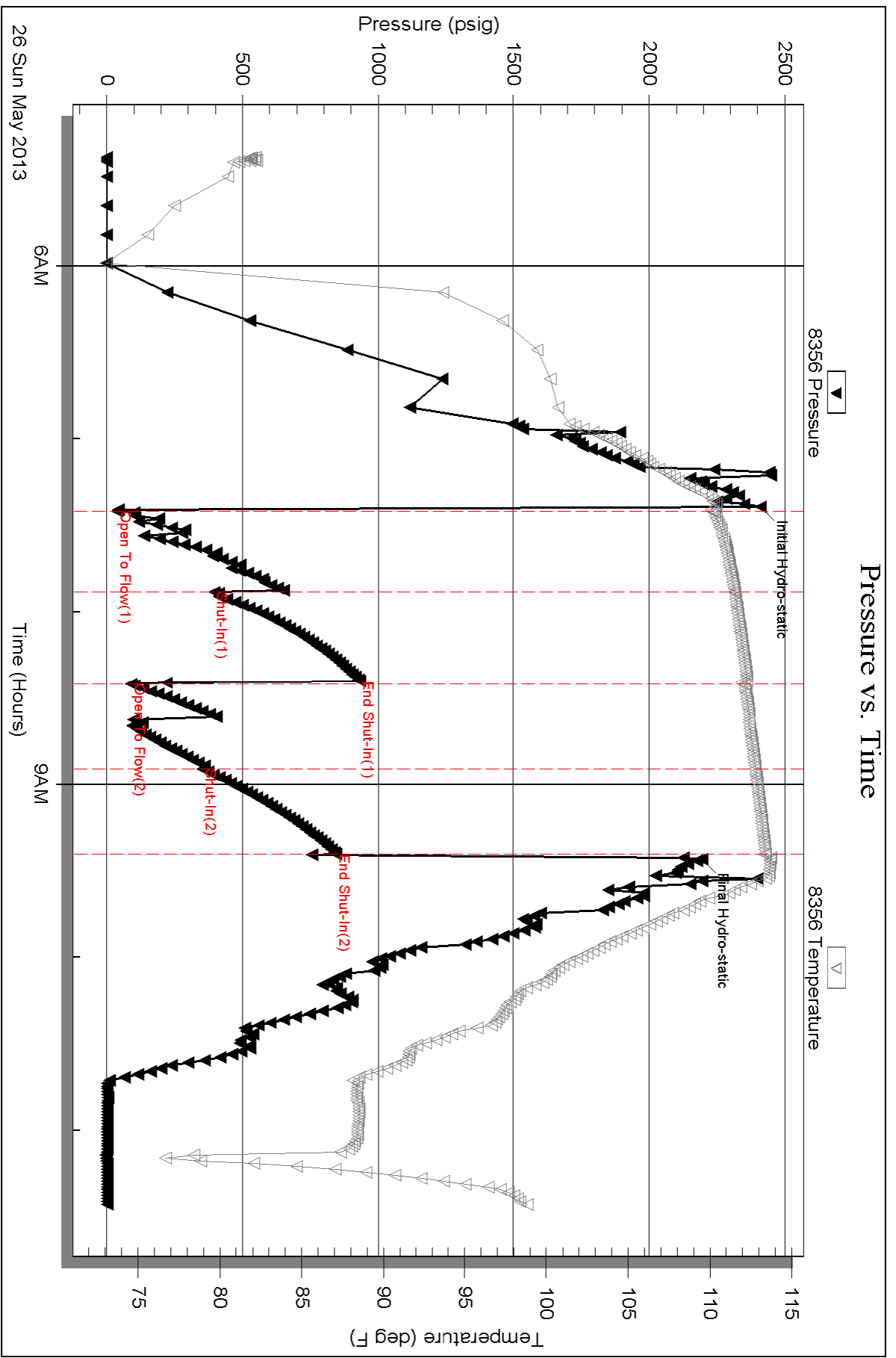
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 9800.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100 % Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



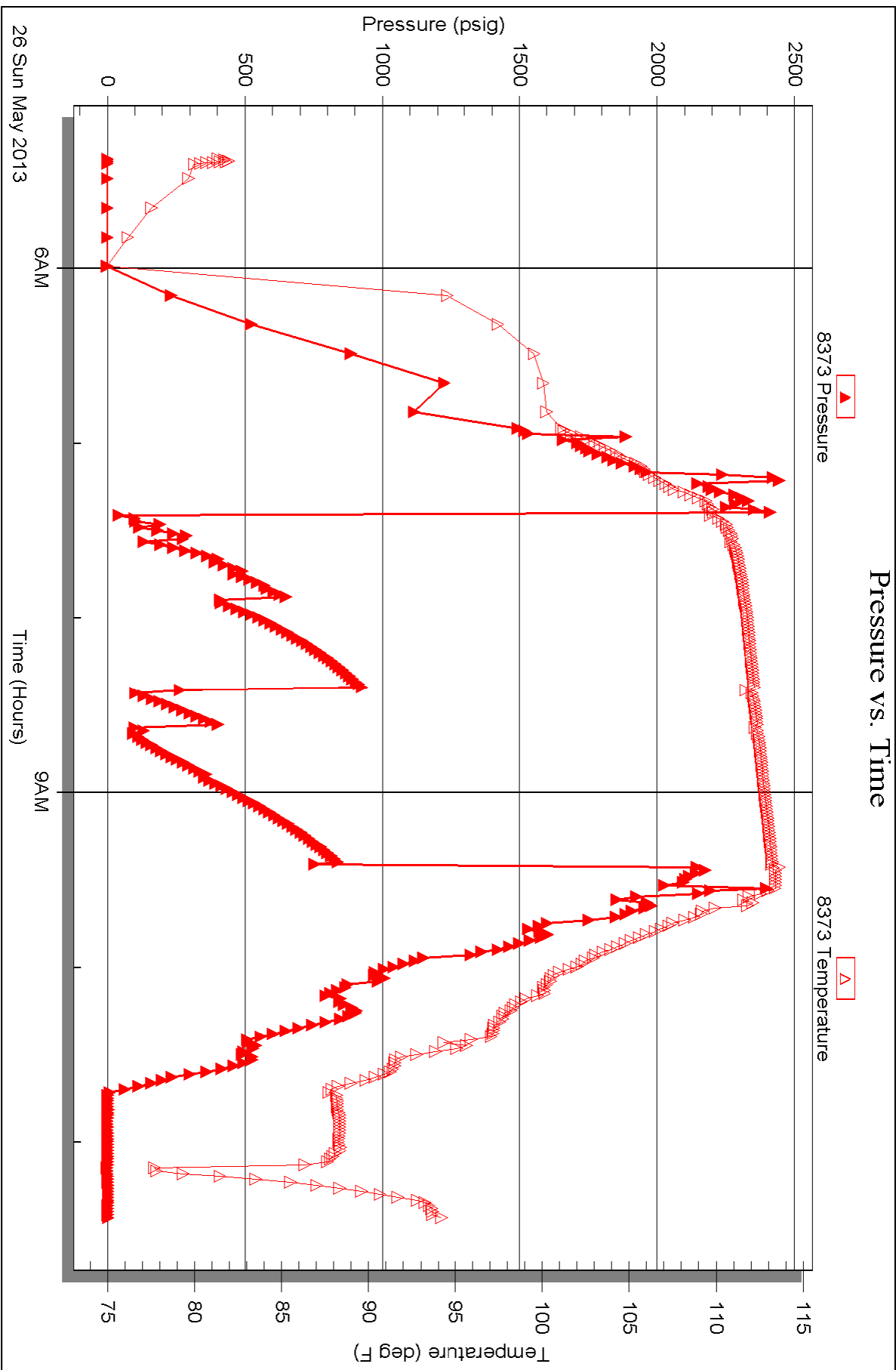
Serial #: 8373

Inside

Landmark Resource Inc

Decker #2-17

DST Test Number: 7





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51374

Well Name & No. Decker 2-17 Test No. 1 Date 5-20-13  
 Company Landmark Resources Inc Elevation 3153 KB 3143 GL  
 Address 1616 S Ooss Rd Ste 600 Houston, TX 77057  
 Co. Rep / Geo. Wes Hansen Rig Murfin 20  
 Location: Sec. 17 Twp. 17S Rge. 34 W Co. Scott State KS

Interval Tested 4246 4268 Zone Tested Lansing H  
 Anchor Length 22 Drill Pipe Run 4043 Mud Wt. 9.3  
 Top Packer Depth 4241 Drill Collars Run 180 Vis 56  
 Bottom Packer Depth 4246 Wt. Pipe Run — WL 6.4  
 Total Depth 4268 Chlorides 9000 ppm System LCM 6  
 Blow Description IF: BoB in 14 min.

FS: No return,  
FS: BoB in 25 min,  
FS: No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>OCM</u>	<u>50</u>	<u>—</u>	<u>50</u>	<u>—</u>
<u>124</u>	<u>MWC90</u>	<u>20</u>	<u>40</u>	<u>30</u>	<u>10</u>
<u>124</u>	<u>90CMW</u>	<u>10</u>	<u>30</u>	<u>50</u>	<u>10</u>
<u>124</u>	<u>MLW</u>	<u>—</u>	<u>90</u>	<u>10</u>	<u>—</u>

Rec Total 496 BHT 114 Gravity — API RW 126 @ 56 °F Chlorides 34,000 ppm

(A) Initial Hydrostatic 2220  Test 1250 T-On Location 16:20  
 (B) First Initial Flow 40  Jars 250 T-Started 17:11  
 (C) First Final Flow 163  Safety Joint 75 T-Open 19:00  
 (D) Initial Shut-In 1085  Circ Sub N/C T-Pulled 22:30  
 (E) Second Initial Flow 146  Hourly Standby \_\_\_\_\_ T-Out 00:55  
 (F) Second Final Flow 223  Mileage 40- 62 Comments \_\_\_\_\_  
 (G) Final Shut-In ~~1085~~ 1085  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2110  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 49  Day Standby \_\_\_\_\_ Total 1637  
 Final Shut-In 90  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1637

Approved By Wesley Hansen Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51375

Well Name & No. Decker 2-17 Test No. 2 Date 5-21-13  
 Company Landmark Resources FAC Elevation 3153 KB 3143 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Wes Hansen Rig Marfin 20  
 Location: Sec. 17 Twp. 17S Rge. 34W Co. Scott State KS

Interval Tested 4280 4340 Zone Tested Lensing F&J  
 Anchor Length \_\_\_\_\_ Drill Pipe Run 4102 Mud Wt. 9.4  
 Top Packer Depth 4275 Drill Collars Run 180 Vis 56  
 Bottom Packer Depth 4280 Wt. Pipe Run \_\_\_\_\_ WL 9.6  
 Total Depth 4340 Chlorides 6500 ppm System LCM 6

Blow Description IF: BoB in 16 min.  
IS: No return,  
FF: BoB in 19 min.  
FS: No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>93</u>	<u>OCM</u>	<u>5</u>		<u>95</u>	
<u>248</u>	<u>OCWM</u>	<u>10</u>	<u>10</u>	<u>80</u>	
<u>186</u>	<u>MLW</u>		<u>80</u>	<u>20</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 527 BHIT 112 Gravity \_\_\_\_\_ API RW .24 @ 61 °F Chlorides 34,000 ppm

(A) Initial Hydrostatic <u>2210</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>14:00</u>
(B) First Initial Flow <u>44</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>14:56</u>
(C) First Final Flow <u>325</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>16:55</u>
(D) Initial Shut-In <u>1199</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>20:25</u>
(E) Second Initial Flow <u>155</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>22:30</u>
(F) Second Final Flow <u>255</u>	<input checked="" type="checkbox"/> Mileage <u>40</u> - 62	Comments _____
(G) Final Shut-In <u>1203</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2084</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> Ruined Packer 320
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
	<input type="checkbox"/> Extra Recorder _____	Total <u>1957</u>
	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1637</u>	

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

Approved By Wesley Hansen

Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53151

Well Name & No. Decker 2-17 Test No. 3 Date 5-22-13  
 Company Landmark Resources Inc Elevation 3153 KB 3143 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Wes Hansen Rig Murfin 20  
 Location: Sec. 17 Twp. 17S Rge. 34W Co. Scott State KS

Interval Tested 4446 4472 Zone Tested KC L / Pleasanton  
 Anchor Length 26 Drill Pipe Run 4262 Mud Wt. 9.3  
 Top Packer Depth 4441 Drill Collars Run 180 Vis 50  
 Bottom Packer Depth 4446 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4472 Chlorides 6000 ppm System LCM 6

Blow Description IF: Surface blow died in 6 min,  
FS: No return,  
FP: No blow,  
FS: No return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free oil</u>	<u>100</u>			
<u>59</u>		<u>5</u>		<u>95</u>	

Rec Total 60 BHT 110 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2243  Test 1250 T-On Location 14:50  
 (B) First Initial Flow 22  Jars 250 T-Started 15:25  
 (C) First Final Flow 32  Safety Joint 75 T-Open 17:10  
 (D) Initial Shut-In 1259  Circ Sub N/C T-Pulled 19:10  
 (E) Second Initial Flow 37  Hourly Standby \_\_\_\_\_ T-Out 20:50  
 (F) Second Final Flow 52  Mileage 40- 62 Comments \_\_\_\_\_  
 (G) Final Shut-In 1237  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2133  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1637  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 1637

Approved By Wes Hansen Our Representative \_\_\_\_\_

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53152

Well Name & No. Decker 2-17 Test No. 4 Date 5-23-13  
 Company Landmark Resources Inc Elevation 3153 KB 3143 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Wes Hansen Rig Murfin 20  
 Location: Sec. 17 Twp. 175 Rge. 34W Co. Scott State KS

Interval Tested 4472 4530 Zone Tested Marmaton  
 Anchor Length 58 Drill Pipe Run 4294 Mud Wt. 9.2  
 Top Packer Depth 4467 Drill Collars Run 180 Vis 55  
 Bottom Packer Depth 4472 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4530 Chlorides 7000 ppm System LCM 6

Blow Description IF: BoB in 8 min.  
IS: BoB in 35 min.  
FF: BoB in 8 min.  
F5: BoB in 50 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>465</u>	<u>90</u>	<u>30</u>	<u>70</u>		
<u>248</u>	<u>ML90</u>	<u>30</u>	<u>50</u>	<u>20</u>	
<u>124</u>	<u>ML90</u>	<u>20</u>	<u>60</u>	<u>20</u>	
Rec	Feet of <u>589 GIP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 837 BHT 116 Gravity 29 API RW - @ - °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2316  Test 1250 T-On Location 8:50  
 (B) First Initial Flow 68  Jars 250 T-Started 9:25  
 (C) First Final Flow 171  Safety Joint 75 T-Open 11:37  
 (D) Initial Shut-In 855  Circ Sub NIC T-Pulled 15:07  
 (E) Second Initial Flow 223  Hourly Standby \_\_\_\_\_ T-Out 17:45  
 (F) Second Final Flow ~~954~~ 297  Mileage 40 62 Comments \_\_\_\_\_  
 (G) Final Shut-In 954  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2190  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 90  
 Sub Total 0  
 Total 1637  
 MP/DST Disc't \_\_\_\_\_

Approved By Wesley Hansen Our Representative \_\_\_\_\_  
 Sub Total 1637

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53153

Well Name & No. Decker 2-17 Test No. 5 Date 5-24-13  
 Company Landmark Resources Inc Elevation 3153 KB 3143 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Wes Hansen Rig Murfin 20  
 Location: Sec. 17 Twp. 17S Rge. 34W Co. Scott State Ks

Interval Tested 4536 4584 Zone Tested Magnesian  
 Anchor Length \_\_\_\_\_ 54 Drill Pipe Run 4352 Mud Wt. 9.2  
 Top Packer Depth \_\_\_\_\_ 4525 Drill Collars Run 180 Vis 55  
 Bottom Packer Depth \_\_\_\_\_ 4530 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth \_\_\_\_\_ 4584 Chlorides 7000 ppm System LCM 6

Blow Description IF: BoB in 4 min.  
IS: surface blow built to 8 in 45 min.  
FF: BoB in 8 min.  
FS: surface blow BoB in 45 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>608</u>	<u>90</u>	<u>20</u>	<u>80</u>		
<u>248</u>	<u>MC90</u>	<u>10</u>	<u>80</u>	<u>10</u>	
<u>124</u>	<u>MC90</u>	<u>10</u>	<u>50</u>	<u>40</u>	
<u>Rec</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
	<u>1004</u>				

Rec Total 980 BHT 116 Gravity 29 API RW - @ - °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2297</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>6:00</u>
(B) First Initial Flow <u>167</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>6:14</u>
(C) First Final Flow <u>188</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>8:12</u>
(D) Initial Shut-In <u>801</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>11:42</u>
(E) Second Initial Flow <u>200</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>14:50</u>
(F) Second Final Flow <u>331</u>	<input checked="" type="checkbox"/> Mileage <u>40-</u> 62	Comments _____
(G) Final Shut-In <u>801</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2203</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby _____	Total <u>1637</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1637</u>	

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

Approved By Wesley Hansen

Our Representative

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53154

Well Name & No. Decker 2-17 Test No. 6 Date 5-25-13  
 Company Landmark Resources Inc Elevation 3153 KB 3143 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Wes Hansen Rig Murfin 20  
 Location: Sec. 17 Twp. 17S Rge. 34W Co. Scott State KS

Interval Tested 4574 4660 Zone Tested Pawnee / Myrick Station / Ft Scott  
 Anchor Length 86 Drill Pipe Run 4389 Mud Wt. 9.2  
 Top Packer Depth 4569 Drill Collars Run 180 Vis 60  
 Bottom Packer Depth 4574 Wt. Pipe Run \_\_\_\_\_ WL 9.6  
 Total Depth 4660 Chlorides 8200 ppm System LCM 7

Blow Description IF; surface blow died in 4 min.  
FS: No return,  
FF: No blow.  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 109 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2477</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>3:00</u>
(B) First Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>3:26</u>
(C) First Final Flow <u>243</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>5:09</u>
(D) Initial Shut-In <u>721</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>7:09</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>9:05</u>
(F) Second Final Flow <u>270</u>	<input checked="" type="checkbox"/> Mileage <u>40</u> 62	Comments _____
(G) Final Shut-In <u>691</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2189</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

Sub Total 1637

Approved By Wesley Hansen Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53155

Well Name & No. Decker 2-17 Test No. 7 Date 5-26-13  
 Company Landmark Resources Inc Elevation 3153 KB 3143 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Wes Hansen Rig Murfin 20  
 Location: Sec. 17 Twp. 17S Rge. 34W Co. Scott State KS

Interval Tested 4710 4800 Zone Tested Johnson  
 Anchor Length 90 Drill Pipe Run 4396 Mud Wt. 9.3  
 Top Packer Depth 4705 Drill Collars Run 180 Vis 64  
 Bottom Packer Depth 4710 Wt. Pipe Run \_\_\_\_\_ WL 10.4  
 Total Depth 4800 Chlorides 9800 ppm System LCM 8

Blow Description IF: 1/4 blow died in 8 min.  
IS: No return.  
FF: No blow.  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 173 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2410</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>4:30</u>
(B) First Initial Flow <u>39</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>5:22</u>
(C) First Final Flow <u>394</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>7:24</u>
(D) Initial Shut-In <u>931</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIL</u>	T-Pulled <u>9:24</u>
(E) Second Initial Flow <u>89</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>11:30</u>
(F) Second Final Flow <u>352</u>	<input checked="" type="checkbox"/> Mileage <u>40</u> - X2 124	Comments <u>pulling LCM</u>
(G) Final Shut-In <u>844</u>	<input type="checkbox"/> Sampler	<u>is to High.</u>
(H) Final Hydrostatic <u>2194</u>	<input type="checkbox"/> Straddle	loaded tools 5/27 8:20

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1699  
 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.

Cahda

PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 136337  
Invoice Date: May 15, 2013  
Page: 1

**Bill To:**

Landmark Resources, Inc.  
1616 S. Voss  
Suite 600  
Houston, TX 77057-1264

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Land	60429	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Great Bend	May 15, 2013	6/14/13

Quantity	Item	Description	Unit Price	Amount
275.00	MAT	Decker #2-17 Class A Common	17.90	4,922.50
5.00	MAT	Gel	23.40	117.00
10.00	MAT	Chloride	64.00	640.00
297.07	SER	Cubic Feet	2.48	736.73
610.20	SER	Ton Mileage	2.60	1,586.52
1.00	SER	Surface	1,512.25	1,512.25
45.00	SER	Pump Truck Mileage	7.70	346.50
45.00	SER	Light Vehicle Mileage	4.40	198.00
1.00	CEMENTER	Dustin Chambers		
1.00	EQUIP OPER	Mike Scothorn		
1.00	OPER ASSIST	Ben Newell		

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 2,514.88

ONLY IF PAID ON OR BEFORE  
Jun 9, 2013

Subtotal	10,059.50
Sales Tax	471.40
Total Invoice Amount	10,530.90
Payment/Credit Applied	
<b>TOTAL</b>	<b>10,530.90</b>







**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

**MAIN OFFICE**  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

**INVOICE**

Invoice Date: 05/30/2013

Terms: 10/10/30,n/30

Invoice # 25921

Page 1

LANDMARK RESORUCES  
1616 S. VOSS ROAD SUITE 150  
HOUSTON TX 77057  
(713)243-8550

DECKER 2-17  
39457  
17-17-34  
05-28-2013  
KS

Part Number	Description	Qty	Unit Price	Total
1126	OIL WELL CEMENT	175.00	23.7000	4147.50
1110A	KOL SEAL (50# BAG)	1050.00	.5600	588.00
1131	60/40 POZ MIX	500.00	15.8600	7930.00
1118B	PREMIUM GEL / BENTONITE	3440.00	.2700	928.80
1107	FLO-SEAL (25#)	125.00	2.9700	371.25
4310	5 1/2 ROTATOR	1.00	150.0000	150.00
4130	CENTRALIZER 5 1/2"	13.00	61.0000	793.00
4159	FLOAT SHOE AFU 5 1/2"	1.00	433.7500	433.75
4104	CEMENT BASKET 5 1/2"	3.00	290.0000	870.00
4283	DV TOOL W/ LATCH DOWN	1.00	4042.5000	4042.50
1144G	MUD FLUSH (SALE)	500.00	1.0000	500.00
<b>Sublet Performed</b>				<b>Total</b>
9996-130	CEMENT MATERIAL DISCOUNT			-2075.48
9995-130	CEMENT EQUIPMENT DISCOUNT			-575.04
<b>Description</b>				<b>Total</b>
405	SINGLE PUMP	Hours	Unit Price	Total
405	EQUIPMENT MILEAGE (ONE WAY)	1.00	3175.00	3175.00
460	TON MILEAGE DELIVERY	45.00	5.25	236.25
529	TON MILEAGE DELIVERY	1.00	1169.55	1169.55
		1.00	1169.55	1169.55

Amount Due 28227.79 if paid after 06/29/2013

Parts:	20754.80	Freight:			
Labor:		Misc:	.00	Tax:	1550.38 AR
Sublt:	-2650.52	Supplies:	.00	Total:	25405.01
			.00	Change:	.00

Signed \_\_\_\_\_ Date \_\_\_\_\_

ARTLESVILLE, OK 918/338-0808  
EL DORADO, KS 316/322-7022  
EUREKA, KS 620/583-7664  
PONCA CITY, OK 580/762-2303  
OAKLEY, KS 785/672-8822  
OTTAWA, KS 785/242-4044  
THAYER, KS  
GILLETTE, WY



**CONSOLIDATED**  
Oil Well Services, LLC

259217

TICKET NUMBER 39457  
LOCATION OAKLEY KS.  
FOREMAN Fuzzy  
DAMON TRAINIE

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

KANSAS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-28-13	4883	DECKER 2-17	17	17	34W	SCOTT
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Landmark Resources			405	JORDON J		
MAILING ADDRESS			460	MIKE P		
CITY			529	TIM W		
STATE			Dan Frey R. Decker			
ZIP CODE			1/2 WEST 3 INTO			

JOB TYPE TWO STAGE HOLE SIZE 7 7/8" HOLE DEPTH 5000-0 CASING SIZE & WEIGHT 5 1/2 - 15.5  
CASING DEPTH 4990 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER DN-2457  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING SHOE 4216  
DISPLACEMENT 117.75 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: SAFETY MEETING RUN FLOAT EQUIPMENT CENT. 1, 2, 7, 8, 9, 10, 11, 12, 13, 14, 17 TOP OF 59, 61 BASKETS BOTTOM OF 2, 9 TOP OF 60 DV TOP OF 60  
Rise and circulate 1 hr. Pump 5 BBL water, special mud flush 5 BBL water  
mix 175 SKS OWC w/ 6\* Kolseal wash pump & lines drop plug and displace  
60 BBLs water, 59 1/2 BBLs mud 1000\* list, 1700\* land. drop bottom  
wait 10 min open Tool @ 900 psi. Circ 4 hrs. Pump 5 BBL water, mix 20 SKS MX  
30 SKS RH. mix 450 SKS 60/40 pos special 1/4\* special wash pump  
and lines drop plug and displace 58 BBL, 800\* list close @ 2200  
cement did circulate approx 20 BBL to pi.  
Thanks Fuzzy & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3,175.00	3,175.00
5406	45	MILEAGE	5.25	236.25
1126	175 SKS.	OWC	23.20	4147.50
1110A	1050 #	KOLSEAL	.56	588.00
1131	500 SKS	60/40 POZ	15.86	7930.00
1118B	3440 #	GEL	.27	928.80
1107	125 #	FLO-SEAL	2.92	371.25
5407A	29.7 ton	TON MILEAGE DELIVERY	1.75	2339.10
4310	1	5 1/2 ROTATOR	150.00	150.00
4130	13	5 1/2 CENTRALIZERS	61.00	793.00
4159	1	5 1/2 FLOAT SHOE	433.75	433.75
4104	3	5 1/2 BASKETS	290.00	870.00
4283	1	5 1/2 DV TOOL W/ LATCH DOWN PLUG	4042.50	4042.50
11446	500 GAL	MUD FLUSH	1.00	500.00
		subtotal		26505.15
		less 1090		2650.25
		subtotal		23884.90
		SALES TAX		1550.38
		ESTIMATED TOTAL		25405.01

completed

Ravin 3737

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

July 30, 2013

Jeff Wood  
Landmark Resources, Inc.  
1616 S VOSS RD STE 600  
HOUSTON, TX 77057-2641

Re: ACO1  
API 15-171-20946-00-00  
Decker 2-17  
NE/4 Sec.17-17S-34W  
Scott County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Jeff Wood