

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1255959  
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: \_\_\_\_\_

1255959

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. 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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	Pammenter Trust 1-5
Doc ID	1255959

All Electric Logs Run

Microresistivity Log
Borehole Compensated Sonic Log
Dual Induction Log
Dual Comp Porosity Log

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	Pammenter Trust 1-5
Doc ID	1255959

#### Tops

Name	Top	Datum
Anhydrite	2405	680
B/Anhydrite	2423	662
Topeka	3726	-641
Heebner	3966	-881
Toronto	3984	-899
Lansing	4008	-923
C	4049	-964
D	4062	-977
E	4098	-1013
F	4120	-1035
G	4142	-1057
Muncie Creek	4189	-1104
H	4199	-1114
I	4240	-1155
J	4264	-1179
Stark Shale	4289	-1204
K	4298	-1213
L	4342	--1257
BKC	4375	-1290
Marmaton	4428	-1343
Altamont	4462	-1377
Pawnee	4509	-1424
Myrick Station	4549	-1464
Fort Scott	4563	-1478

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	Pammenter Trust 1-5
Doc ID	1255959

Tops

Name	Top	Datum
Cherokee	4591	-1506
Johnson Zone	4636	-1551
Morrow Shale	4702	-1617
Upper Morrow Shale	4731	-1646
Missippian	4741	-1656





P.O. Box 205803  
Dallas, TX 75320-5803

Voice: (832) 482-3742  
Fax: (832) 482-3738

# INVOICE

Invoice Number: 149849  
Invoice Date: Jun 10, 2015  
Page: 1

PAID JUL 07 2015  
CK# 48500  
\$ 52,745.57

Federal Tax I.D.#: 20-8651475

**Bill To:**

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

APPROVED JUN 29 2015

Customer ID	Field Ticket #	Payment Terms	
Land	67806	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Jun 10, 2015	7/10/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Pammenter #1-5		
282.00	CEMENT MATERIALS	Gel	0.50	141.00
150.00	CEMENT MATERIALS	ASC	23.50	3,525.00
450.00	CEMENT MATERIALS	Light Weight	19.88	8,946.00
750.00	CEMENT MATERIALS	Gilsonite	0.98	735.00
113.00	CEMENT MATERIALS	Flo Seal	2.97	335.61
12.00	CEMENT MATERIALS	DV 1100	41.09	493.08
688.62	CEMENT SERVICE	Cubic Feet Charge	2.48	1,707.78
1,167.20	CEMENT SERVICE	Ton Mileage Charge	2.75	3,209.80
1.00	CEMENT SERVICE	Production -- Bottom Stage	2,765.75	2,765.75
1.00	CEMENT SERVICE	Production -- Top Stage	2,443.75	2,443.75
40.00	CEMENT SERVICE	Pump Truck Mileage	7.70	308.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
1.00	CEMENT SERVICE	Rotating Head Manifold Rental	475.00	475.00
1.00	EQUIPMENT SALES	5-1/2 AFU Float Shoe	545.00	545.00
1.00	EQUIPMENT SALES	5-1/2 Latch Down Flex Assembly	660.00	660.00
1.00	EQUIPMENT SALES	5-1/2 D V Tool	5,335.00	5,335.00
13.00	EQUIPMENT SALES	5 1/2 Turbolizer	95.00	1,235.00
2.00	EQUIPMENT SALES	5-1/2 Basket	395.00	790.00
1.00	CEMENT SUPERVISOR	Paul Beaver		
1.00	EQUIPMENT OPERATOR	Brandon Wilkinson		

73550

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

\$ 12,854.17

ONLY IF PAID ON OR BEFORE

Jul 10, 2015

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
<b>TOTAL</b>	<b>Continued</b>

\$22,825.97



P.O. Box 205803  
 Dallas, TX 75320-5803

Voice: (832) 482-3742  
 Fax: (832) 482-3738

# INVOICE

Invoice Number: 149849  
 Invoice Date: Jun 10, 2015  
 Page: 2

Federal Tax I.D.#: 20-8651475

**Bill To:**

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

Customer ID	Field Ticket #	Payment Terms	
Land	67806	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Jun 10, 2015	7/10/15

Quantity	Item	Description	Unit Price	Amount
1.00	EQUIPMENT OPERATOR	LaRene Wentz		

Subtotal	33,826.77
Sales Tax	1,853.37
Total Invoice Amount	35,680.14
Payment/Credit Applied	
<b>TOTAL</b>	<b>35,680.14</b>

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

\$

ONLY IF PAID ON OR BEFORE

Jul 10, 2015







P.O. Box 205803  
Dallas, TX 75320-5803

Voice: (832) 482-3742  
Fax: (832) 482-3738

**Bill To:**  
Landmark Resources, Inc.  
1616 S. Voss  
Suite 600  
Houston, TX 77057-1264

PAID JUN 19 2015  
CHK# 48454  
\$5,043.74

21730

# INVOICE

Invoice Number: 149772  
Invoice Date: Jun 2, 2015  
Page: 1

Federal Tax I.D.#: 20-8651475

APPROVED JUN 17 2015

Customer ID	Field Ticket #	Payment Terms	
Land	64719	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jun 2, 2015	7/2/15

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Pammenter Trust #1-5		
185.00	CEMENT MATERIALS	Class A Common	17.90	3,311.50
522.00	CEMENT MATERIALS	Chloride	1.10	574.20
194.25	CEMENT SERVICE	Cubic Feet Charge	2.48	481.74
358.40	CEMENT SERVICE	Ton Mileage Charge	2.75	985.60
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
40.00	CEMENT SERVICE	Pump Truck Mileage	7.70	308.00
1.00	CEMENT SERVICE	Swedge Manifold Rental	275.00	275.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	EQUIPMENT OPERATOR	Wayne McGhghy		
1.00	EQUIPMENT OPERATOR	Darren Racette		

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

\$ 2,897.23

ONLY IF PAID ON OR BEFORE

Jul 2, 2015

Subtotal		7,624.29
Sales Tax	0 * *	316.68
Total Invoice Amount		7,940.97
Payment/Credit Applied	7,940.97 +	
<b>TOTAL</b>	2,897.23 -	<b>7,940.97</b>

000

5,043.74



# ALLIED OIL & GAS SERVICES, LLC 064719

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Oakley KS

DATE <u>6-2-15</u>	SEC <u>5</u>	TWP. <u>17</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>7:00 pm</u>	JOB START <u>8:00 pm</u>	JOB FINISH <u>5:30 pm</u>
LEASER <u>Paumeter Trust</u>	WELL # <u>1-5</u>	LOCATION <u>Oakley 375 to Hwy 4</u>			COUNTY <u>Grant</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)				<u>4w, 1w, 1/2w.</u>			

CONTRACTOR <u>Marfin 21</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>8 7/8</u> T.D. <u>258'</u>	CEMENT AMOUNT ORDERED <u>185 sks cement 3% ACE</u>
CASING SIZE <u>8 7/8</u> DEPTH	
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>185 sks @ 17.90 3311.50</u>
MEAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG. <u>15'</u>	GEL @
PERFS.	CHLORIDE <u>522 # @ 1.10 574.20</u>
DISPLACEMENT <u>15.43 bbl</u>	ASC @

**EQUIPMENT**

PUMP TRUCK CEMENTER <u>LaRene E. White</u>
# <u>422</u> HELPER <u>Wayne M. Ghyb</u>
BULK TRUCK
# <u>874/387</u> DRIVER <u>Darren Racette</u>
BULK TRUCK
# DRIVER

MATERIAL TOTAL @	<u>3,885.70</u>
(1476.57/383)	
HANDLING <u>194.25 PPS @ 2.98</u>	<u>481.29</u>
MILEAGE <u>0.76 per X 40X 2.75</u>	<u>983.60</u>

REMARKS:  
mix sks cement  
Displace with water  
Cement did circulate  
4 bbl to pit

Thank you

CHARGE TO: handmark Resources  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL \_\_\_\_\_

**SERVICE**

DEPTH OF JOB <u>256.07</u>	
PUMP TRUCK CHARGE	<u>1572.29</u>
EXTRA FOOTAGE @	
MILEAGE <u>MI-HO 40 @ 7.70</u>	<u>308.00</u>
MANIFOLD <u>sewage MI-LU 40 @ 4.40</u>	<u>176.00</u>
(1400.66/383) TOTAL	<u>3,738.59</u>

**PLUG & FLOAT EQUIPMENT**

_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Juan Tinoco  
SIGNATURE Juan Tinoco

TOTAL \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 7,624.29  
DISCOUNT 2,891.23 (38%) IF PAID IN 30 DAYS  
4,732.05 net



## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd.  
Suite 600  
Houston, TX 77057

ATTN: Terry McLeod

### **Pammerter #1-5**

#### **S.5-17s-33w Scott/KS**

Start Date: 2015.06.07 @ 03:28:00

End Date: 2015.06.07 @ 13:13:19

Job Ticket #: 61687                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.06.09 @ 15:27:01



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources Inc.

**S.5-17s-33w Scott/KS**

1616 S. Voss Rd.  
Suite 600  
Houston, TX 77057  
ATTN: Terry McLeod

**Pammenter #1-5**

Job Ticket: 61687

**DST#: 1**

Test Start: 2015.06.07 @ 03:28:00

## GENERAL INFORMATION:

Formation: **Marmaton - Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:13:30

Time Test Ended: 13:13:19

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 61

**Interval: 4438.00 ft (KB) To 4495.00 ft (KB) (TVD)**

Reference Elevations: 3085.00 ft (KB)

Total Depth: 4495.00 ft (KB) (TVD)

3074.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8357**

**Inside**

Press@RunDepth: 876.22 psig @ 4440.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.07

End Date:

2015.06.07

Last Calib.:

2015.06.07

Start Time:

03:28:02

End Time:

13:13:19

Time On Btm:

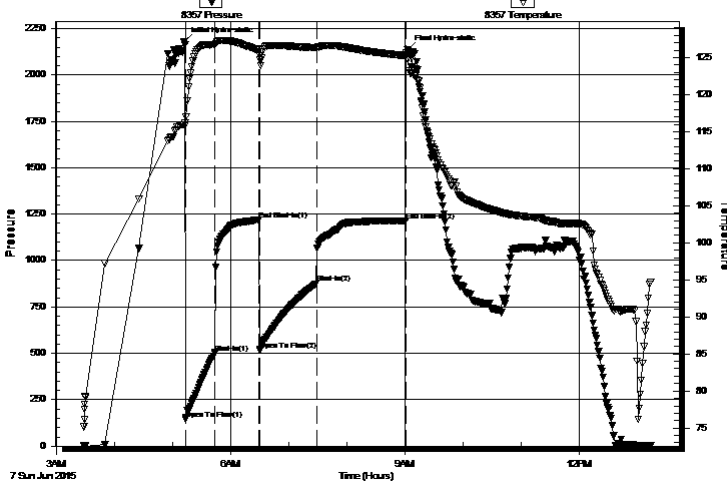
2015.06.07 @ 05:11:50

Time Off Btm:

2015.06.07 @ 09:02:30

**TEST COMMENT:** 30- B.O.B. @ 1 1/2 min.  
45- B.O.B. @ 17 min.  
60- B.O.B. @ 3 min. G.T.S. @ 35 min. Not enough pressure to gauge gas.  
90- B.O.B. @ 21 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.00	115.95	Initial Hydro-static
2	143.45	115.93	Open To Flow (1)
32	502.83	126.74	Shut-In(1)
78	1219.94	126.01	End Shut-In(1)
79	517.51	124.65	Open To Flow (2)
137	876.22	126.29	Shut-In(2)
229	1214.50	125.24	End Shut-In(2)
231	2134.21	124.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2056' GIP	0.00
123.00	GOCM 20g 20o 60m	0.60
1998.00	GO estimated 50g 50o	26.91
245.00	GO 40g 60o	3.44

Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources Inc.

**S.5-17s-33w Scott/KS**

1616 S. Voss Rd.  
Suite 600  
Houston, TX 77057  
ATTN: Terry McLeod

**Pammenter #1-5**

Job Ticket: 61687

**DST#: 1**

Test Start: 2015.06.07 @ 03:28:00

## Tool Information

Drill Pipe:	Length: 4176.00 ft	Diameter: 3.80 inches	Volume: 58.58 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.50 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4438.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.00 ft			
Tool Length:	79.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4416.50	
Shut In Tool	5.00			4421.50	
Hydraulic tool	5.00			4426.50	
Safety Joint	2.50			4429.00	
Packer	5.00			4434.00	22.50 Bottom Of Top Packer
Packer	4.00			4438.00	
Stubb	1.00			4439.00	
Perforations	1.00			4440.00	
Recorder	0.00	8357	Inside	4440.00	
Recorder	0.00	6751	Outside	4440.00	
Perforations	19.00			4459.00	
Change Over Sub	1.00			4460.00	
Drill Pipe	31.00			4491.00	
Change Over Sub	1.00			4492.00	
Bullnose	3.00			4495.00	57.00 Bottom Packers & Anchor

**Total Tool Length: 79.50**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources Inc.

**S.5-17s-33w Scott/KS**

1616 S. Voss Rd.  
Suite 600  
Houston, TX 77057  
ATTN: Terry McLeod

**Pammenter #1-5**

Job Ticket: 61687

**DST#: 1**

Test Start: 2015.06.07 @ 03:28:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 53.00 sec/qt  
Water Loss: 8.78 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 4800.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 34 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2056' GIP	0.000
123.00	GOCM 20g 20o 60m	0.605
1998.00	GO estimated 50g 50o	26.906
245.00	GO 40g 60o	3.437

Total Length: 2366.00 ft      Total Volume: 30.948 bbl

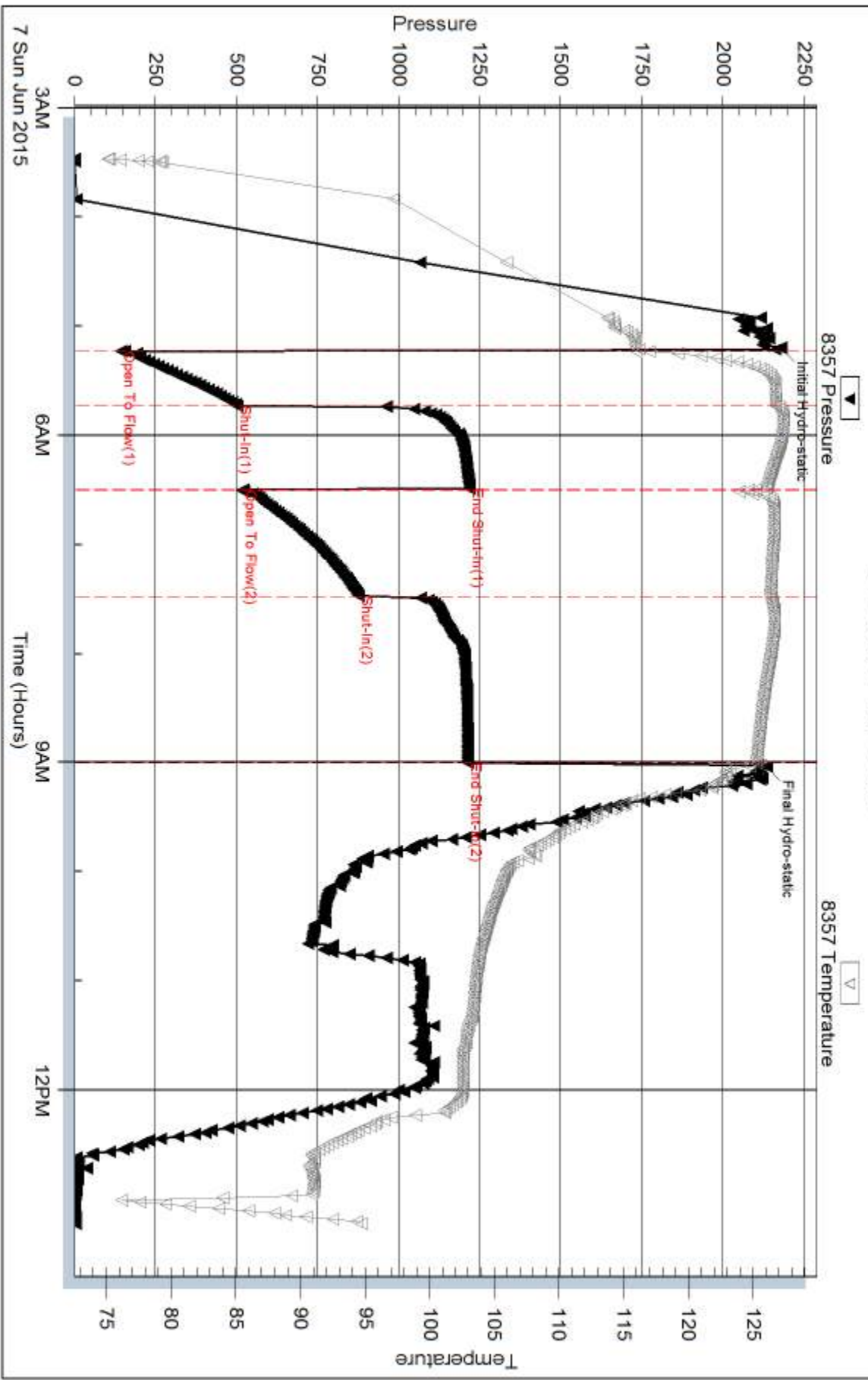
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

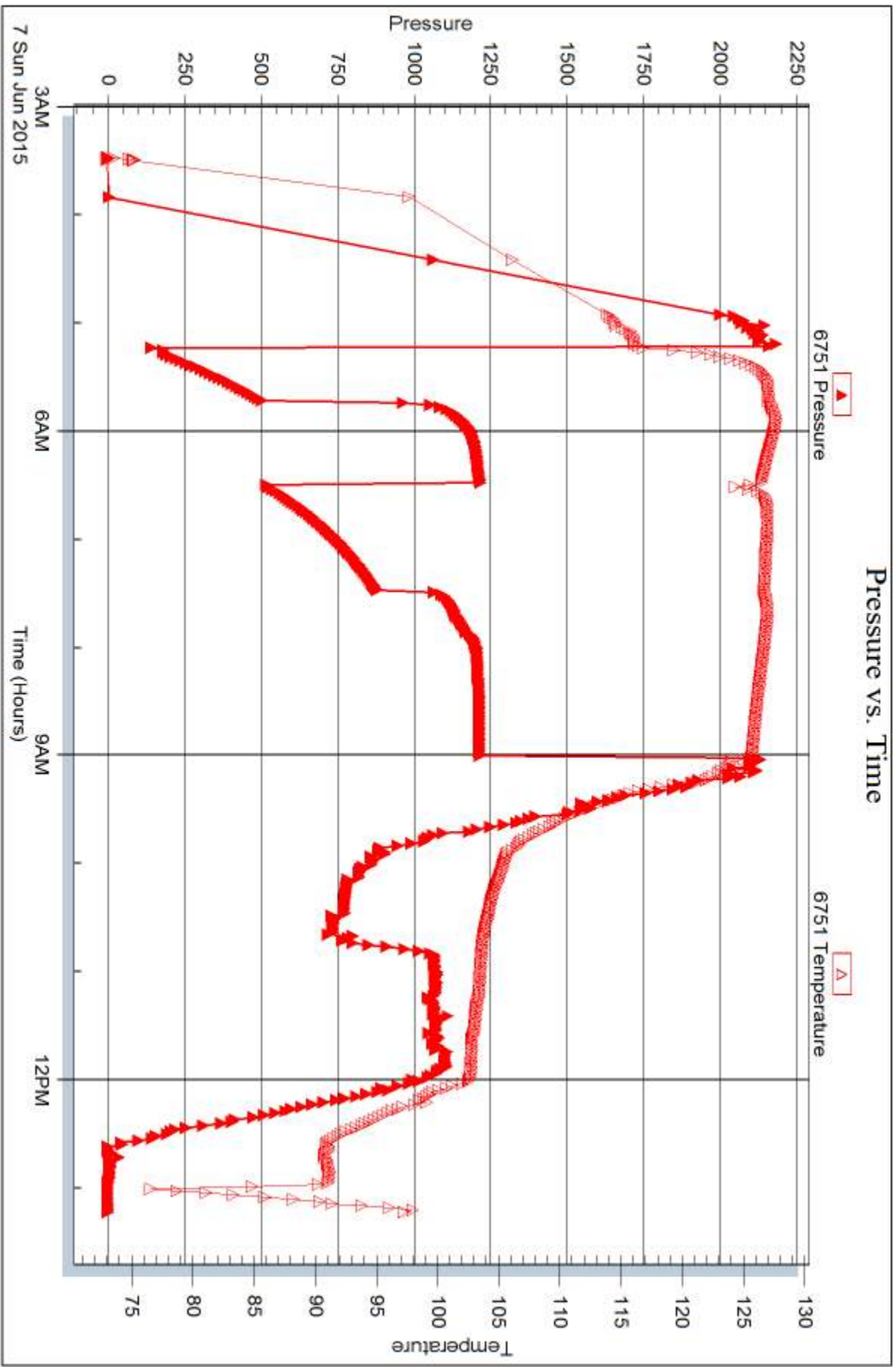
Laboratory Name:      Laboratory Location:

Recovery Comments: API: 36 @ 90 Degrees F = 34.



### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd.  
Suite 600  
Houston, TX 77057

ATTN: Terry McLeod

### **Pammerter #1-5**

#### **S.5-17s-33w Scott/KS**

Start Date: 2015.06.08 @ 00:13:00

End Date: 2015.06.08 @ 08:05:00

Job Ticket #: 61688                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.06.09 @ 15:25:59

Landmark Resources Inc.

S.5-17s-33w Scott/KS

Pammerter #1-5

DST # 2

Pawnee - Ft. Scott

2015.06.08



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources Inc.

**S.5-17s-33w Scott/KS**

1616 S. Voss Rd.  
Suite 600  
Houston, TX 77057  
ATTN: Terry McLeod

**Pammenter #1-5**

Job Ticket: 61688 **DST#: 2**

Test Start: 2015.06.08 @ 00:13:00

## GENERAL INFORMATION:

Formation: **Pawnee - Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:05:50

Time Test Ended: 08:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 61

**Interval: 4491.00 ft (KB) To 4587.00 ft (KB) (TVD)**

Reference Elevations: 3085.00 ft (KB)

Total Depth: 4587.00 ft (KB) (TVD)

3074.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 6751 Outside**

Press@RunDepth: 46.45 psig @ 4492.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.08

End Date: 2015.06.08

Last Calib.: 2015.06.08

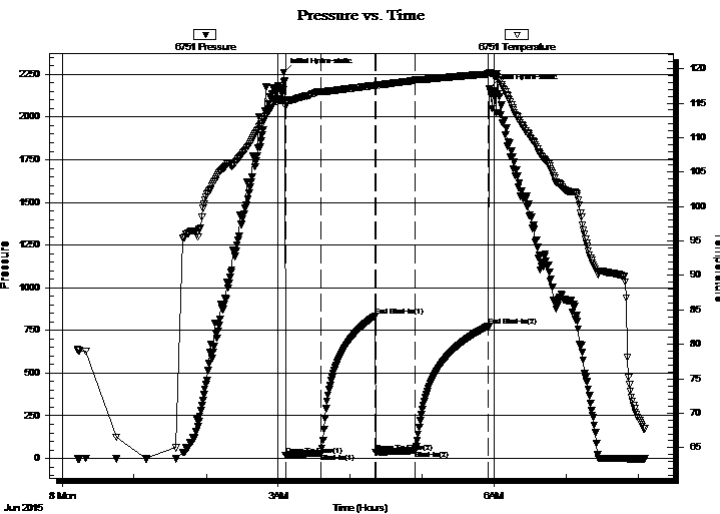
Start Time: 00:13:02

End Time: 08:05:00

Time On Btm: 2015.06.08 @ 03:04:30

Time Off Btm: 2015.06.08 @ 05:55:50

TEST COMMENT: 30- 1" Blow .  
45- No return.  
30- No blow .  
60- No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2261.80	115.43	Initial Hydro-static
2	16.60	114.46	Open To Flow (1)
32	31.53	116.70	Shut-In(1)
77	834.78	117.56	End Shut-In(1)
77	35.52	117.32	Open To Flow (2)
110	46.45	118.35	Shut-In(2)
171	774.40	119.22	End Shut-In(2)
172	2165.91	119.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSM 100m	0.30

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources Inc.

**S.5-17s-33w Scott/KS**

1616 S. Voss Rd.  
Suite 600  
Houston, TX 77057  
ATTN: Terry McLeod

**Pammenter #1-5**

Job Ticket: 61688

**DST#: 2**

Test Start: 2015.06.08 @ 00:13:00

## Tool Information

Drill Pipe:	Length: 4243.00 ft	Diameter: 3.80 inches	Volume: 59.52 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 60.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.50 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4491.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	96.00 ft			
Tool Length:	118.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4469.50	
Shut In Tool	5.00			4474.50	
Hydraulic tool	5.00			4479.50	
Safety Joint	2.50			4482.00	
Packer	5.00			4487.00	22.50 Bottom Of Top Packer
Packer	4.00			4491.00	
Stubb	1.00			4492.00	
Recorder	0.00	8357	Inside	4492.00	
Recorder	0.00	6751	Outside	4492.00	
Perforations	28.00			4520.00	
Change Over Sub	1.00			4521.00	
Drill Pipe	62.00			4583.00	
Change Over Sub	1.00			4584.00	
Bullnose	3.00			4587.00	96.00 Bottom Packers & Anchor

**Total Tool Length: 118.50**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources Inc.

**S.5-17s-33w Scott/KS**

1616 S. Voss Rd.  
Suite 600  
Houston, TX 77057  
ATTN: Terry McLeod

**Pammenter #1-5**

Job Ticket: 61688

**DST#: 2**

Test Start: 2015.06.08 @ 00:13:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.19 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 4500.00 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
60.00	OSM 100m	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

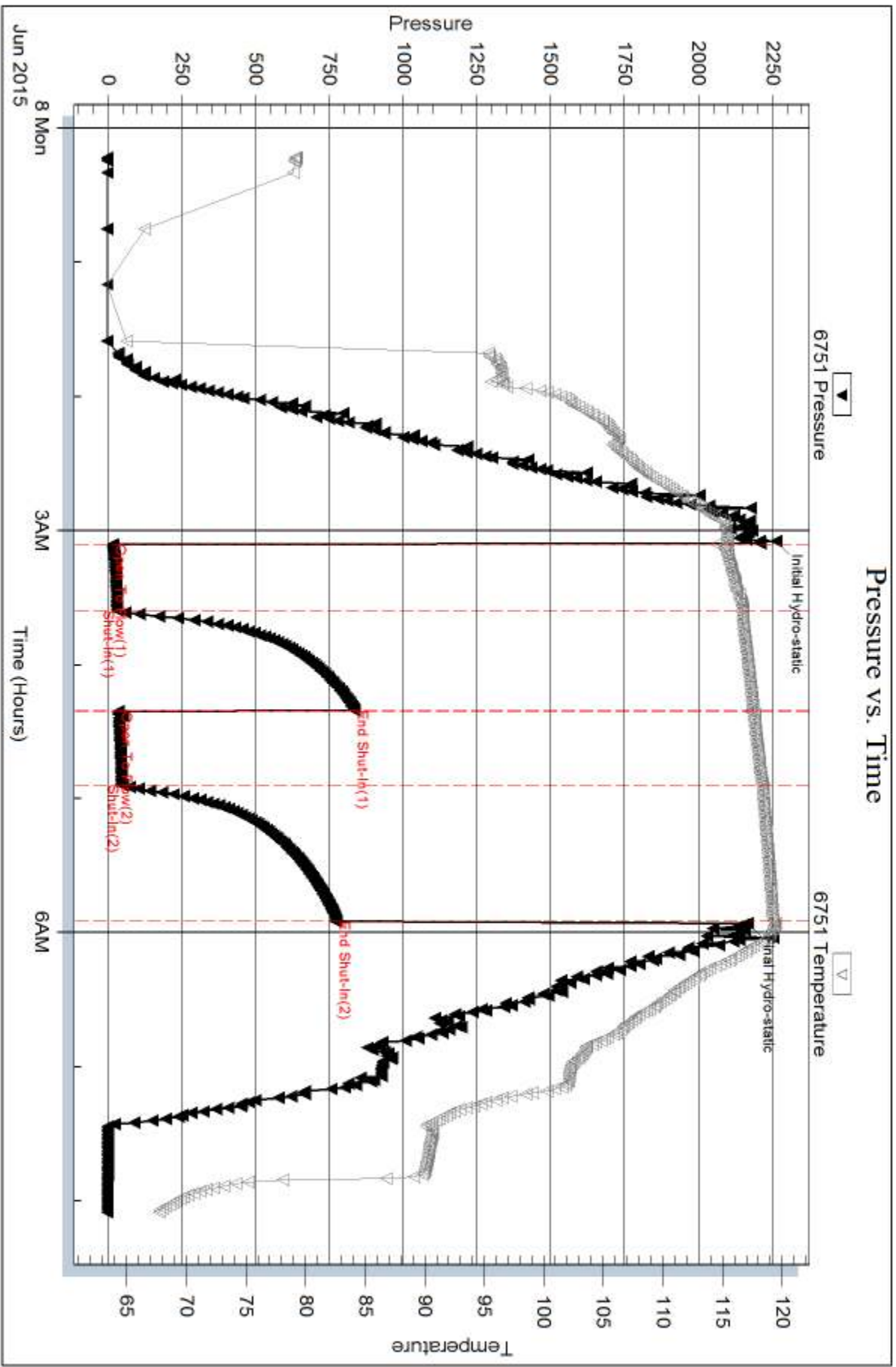
Num Gas Bombs: 0

Serial #:

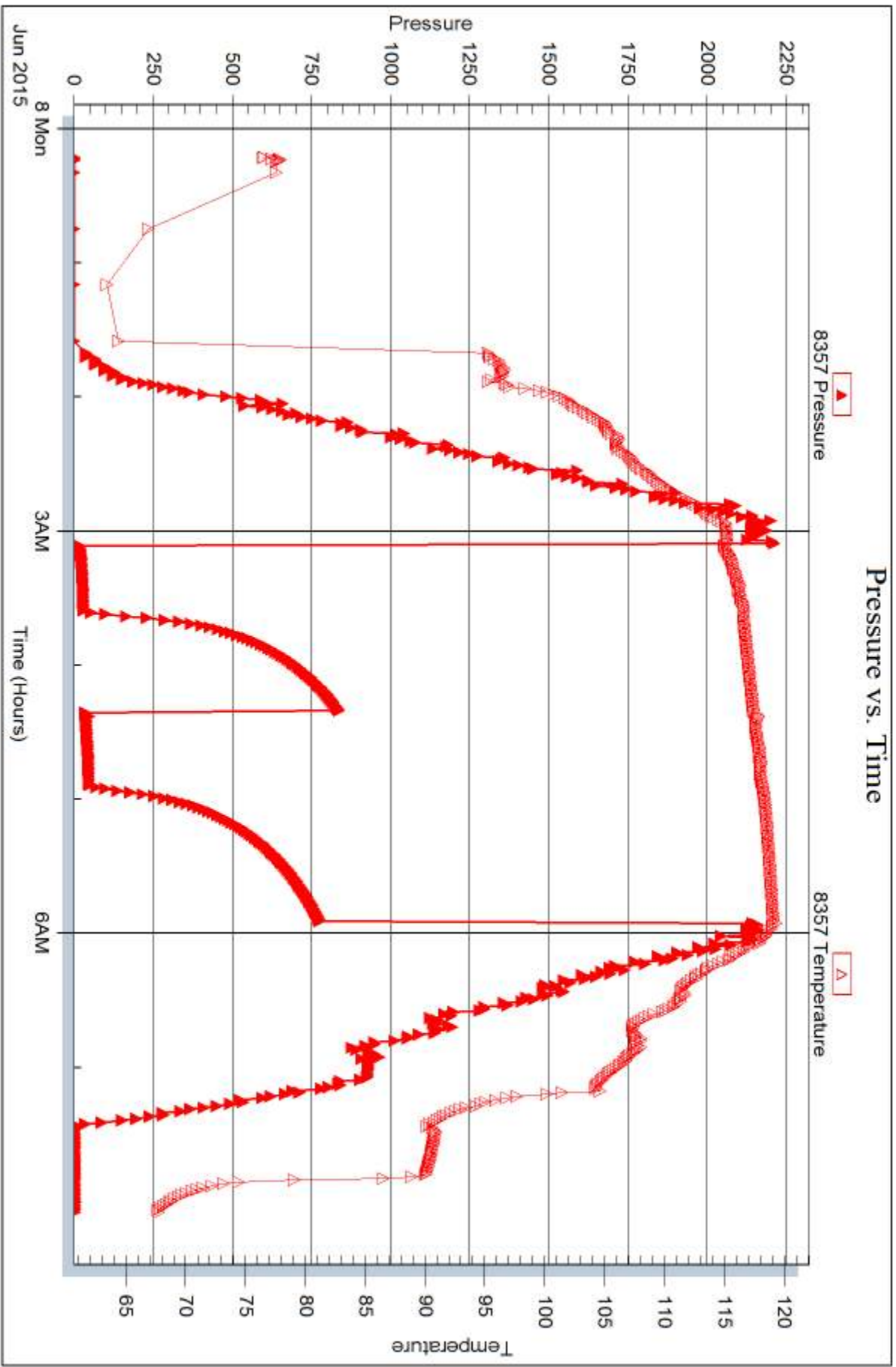
Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S. Voss Rd.  
Suite 600  
Houston, TX 77057

ATTN: Terry McLeod

### **Pammenter #1-5**

#### **S.5-17s-33w Scott/KS**

Start Date: 2015.06.08 @ 22:26:00

End Date: 2015.06.09 @ 05:46:09

Job Ticket #: 61689                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.06.09 @ 15:25:34



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources Inc.

**S.5-17s-33w Scott/KS**

1616 S. Voss Rd.  
Suite 600  
Houston, TX 77057  
ATTN: Terry McLeod

**Pammenter #1-5**

Job Ticket: 61689

**DST#: 3**

Test Start: 2015.06.08 @ 22:26:00

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:34:40

Time Test Ended: 05:46:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 61

**Interval: 4645.00 ft (KB) To 4715.00 ft (KB) (TVD)**

Reference Elevations: 3085.00 ft (KB)

Total Depth: 4715.00 ft (KB) (TVD)

3074.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8357 Inside**

Press@RunDepth: 54.72 psig @ 4648.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.08

End Date:

2015.06.09

Last Calib.: 2015.06.09

Start Time: 22:22:02

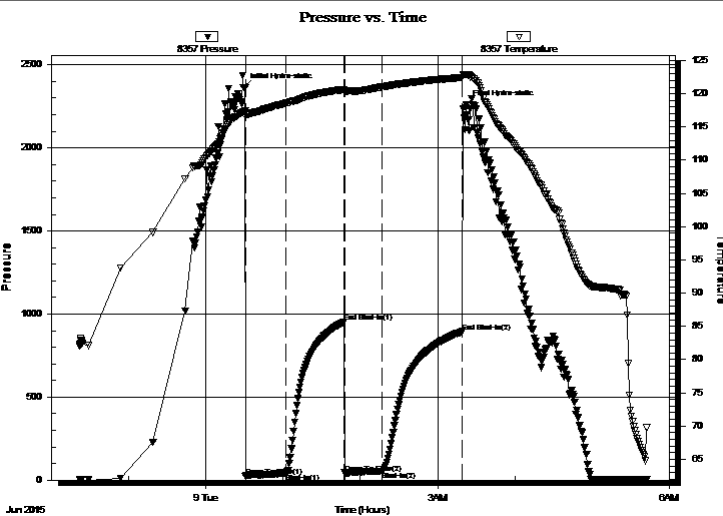
End Time:

05:42:10

Time On Btm: 2015.06.09 @ 00:29:00

Time Off Btm: 2015.06.09 @ 03:21:50

TEST COMMENT: 30- 1" Blow .  
45- No return.  
30- No blow .  
60- No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2363.64	117.30	Initial Hydro-static
2	21.74	116.54	Open To Flow (1)
34	39.97	118.56	Shut-In(1)
79	953.72	120.63	End Shut-In(1)
79	43.70	120.25	Open To Flow (2)
108	54.72	121.02	Shut-In(2)
170	894.30	122.44	End Shut-In(2)
173	2258.40	122.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	OSM 100M	0.32

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

Landmark Resources Inc.

**S.5-17s-33w Scott/KS**

1616 S. Voss Rd.  
Suite 600  
Houston, TX 77057  
ATTN: Terry McLeod

**Pammenter #1-5**

Job Ticket: 61689 **DST#: 3**

Test Start: 2015.06.08 @ 22:26:00

### GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:34:40

Time Test Ended: 05:46:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 61

**Interval: 4645.00 ft (KB) To 4715.00 ft (KB) (TVD)**

Reference Elevations: 3085.00 ft (KB)

Total Depth: 4715.00 ft (KB) (TVD)

3074.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 6751**

**Outside**

Press@RunDepth: psig @ 4648.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.08

End Date: 2015.06.09

Last Calib.: 2015.06.09

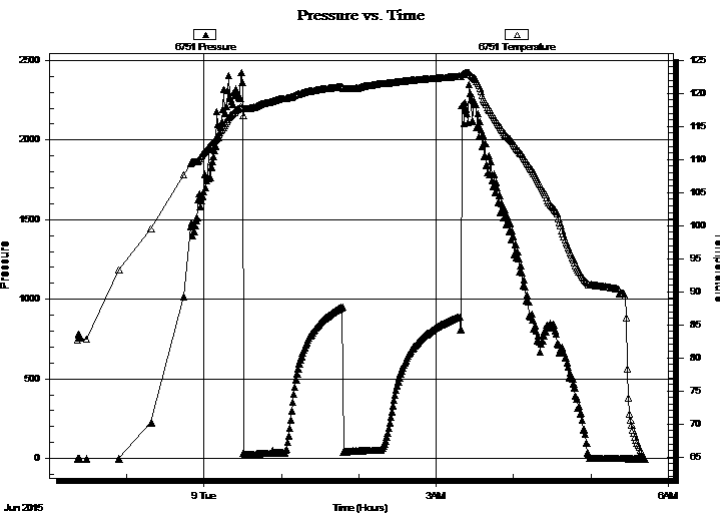
Start Time: 22:22:12

End Time: 05:42:10

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- 1" Blow.  
45- No return.  
30- No blow.  
60- No return.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
65.00	OSM 100M	0.32

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources Inc.

**S.5-17s-33w Scott/KS**

1616 S. Voss Rd.  
Suite 600  
Houston, TX 77057  
ATTN: Terry McLeod

**Pammenter #1-5**

Job Ticket: 61689

**DST#: 3**

Test Start: 2015.06.08 @ 22:26:00

## Tool Information

Drill Pipe:	Length: 4400.00 ft	Diameter: 3.80 inches	Volume: 61.72 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 62.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.50 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4645.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	92.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4623.50	
Shut In Tool	5.00			4628.50	
Hydraulic tool	5.00			4633.50	
Safety Joint	2.50			4636.00	
Packer	5.00			4641.00	22.50 Bottom Of Top Packer
Packer	4.00			4645.00	
Stubb	1.00			4646.00	
Perforations	2.00			4648.00	
Recorder	0.00	8357	Inside	4648.00	
Recorder	0.00	6751	Outside	4648.00	
Change Over Sub	1.00			4649.00	
Drill Pipe	62.00			4711.00	
Change Over Sub	1.00			4712.00	
Bullnose	3.00			4715.00	70.00 Bottom Packers & Anchor

**Total Tool Length: 92.50**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources Inc.

**S.5-17s-33w Scott/KS**

1616 S. Voss Rd.  
Suite 600  
Houston, TX 77057  
ATTN: Terry McLeod

**Pammenter #1-5**

Job Ticket: 61689

**DST#: 3**

Test Start: 2015.06.08 @ 22:26:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 7.99 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 5600.00 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
65.00	OSM 100M	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0

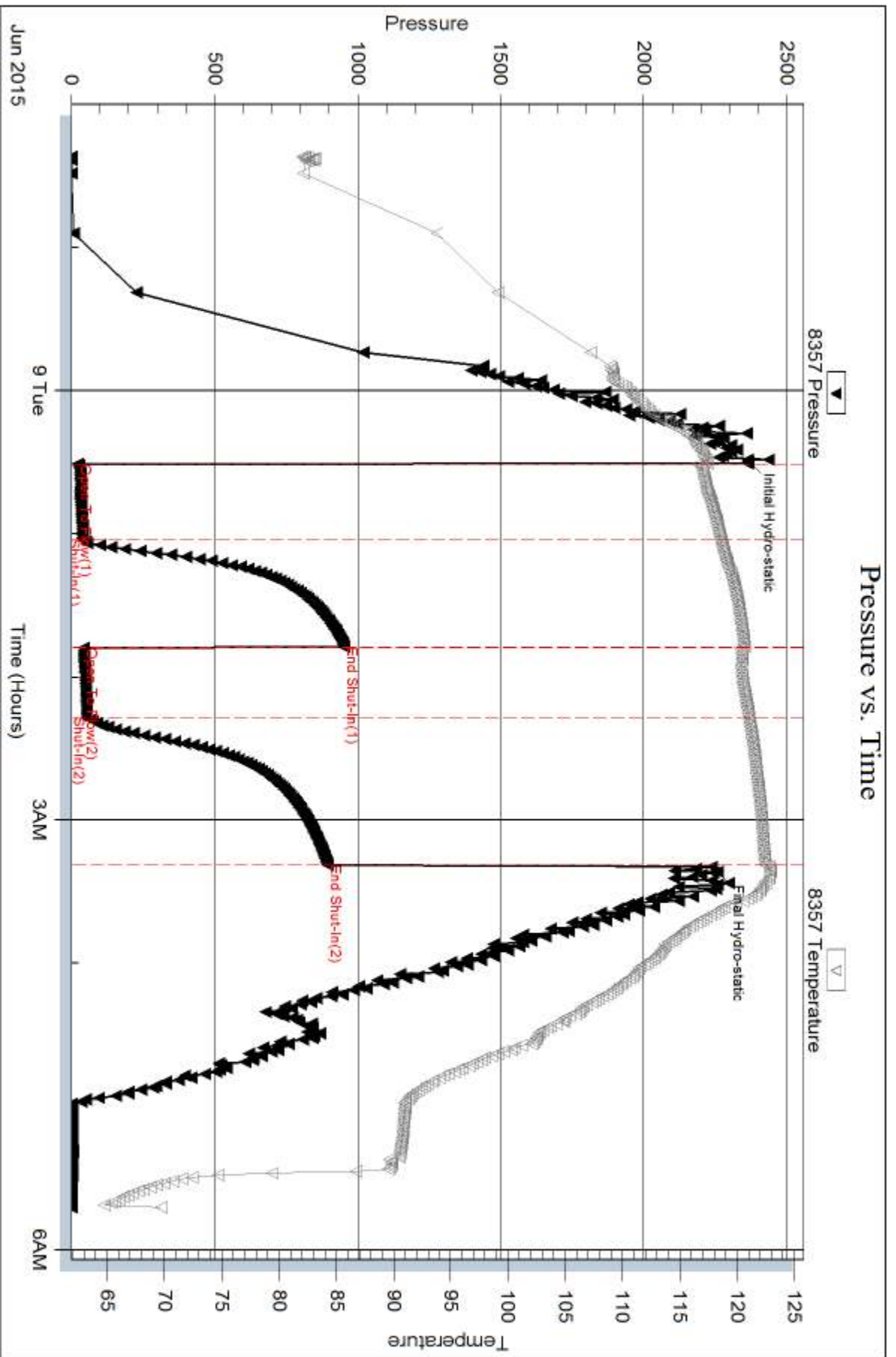
Num Gas Bombs: 0

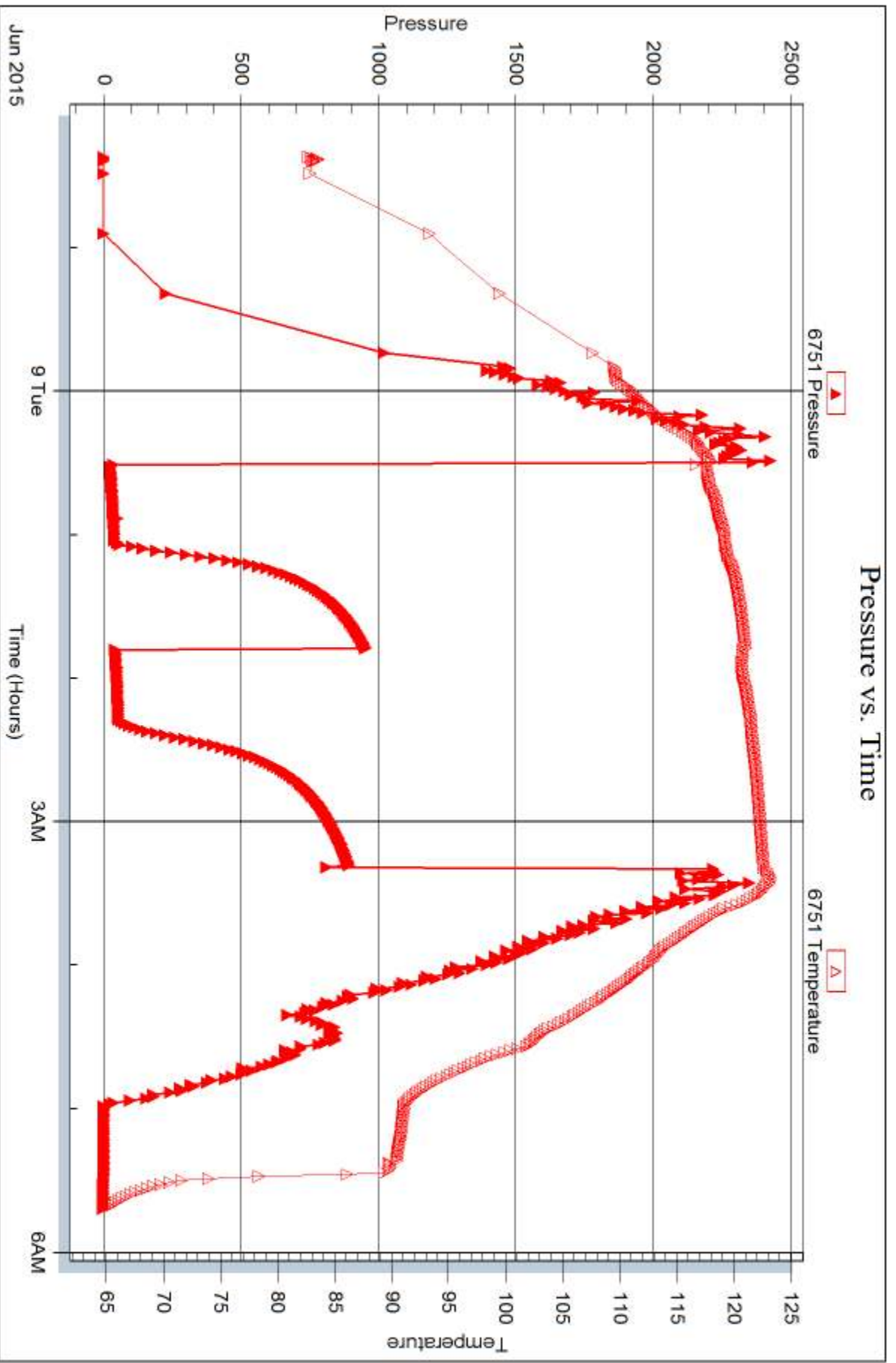
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61687

Well Name & No. Pammenter #1-5 Test No. 1 Date 6-7-15  
 Company Landmark Resources, Inc. Elevation 3085 KB 3074 GL  
 Address 1616 E. Voss Rd. STE 600 Houston, TX 77057  
 Co. Rep / Geo. Terry McLeod Rig MDC #21  
 Location: Sec. 5 Twp. 17s Rge. 33W Co. Scott State KS

Interval Tested 4438-4495 Zone Tested Marmaton - Altament  
 Anchor Length 57 Drill Pipe Run 4176 Mud Wt. 9.3  
 Top Packer Depth 4434 Drill Collars Run 246 Vis 53  
 Bottom Packer Depth 4438 Wt. Pipe Run 0 WL 8.8  
 Total Depth 4495 Chlorides 4800 ppm System LCM 2<sup>nd</sup>  
 Blow Description B.O.B. @ 1 1/2 min.  
B.O.B. @ 17 min.  
B.O.B. @ 3 min. G.T.S. @ 35 min. Not enough pressure to gage gas  
B.O.B @ 21 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>245</u>	<u>GO</u>	<u>40</u>	<u>60</u>		
<u>1998</u>	<u>GO Circulated out</u>	<u>Estimated 50</u>	<u>50</u>		
<u>123</u>	<u>GO CM</u>	<u>20</u>	<u>20</u>		<u>60</u>
	<u>2056' GIP</u>	<u>100</u>			

Rec Total 2364 BHT 125 Gravity 34 API RW @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2179  Test 1150 T-On Location 2:  
 (B) First Initial Flow 143  Jars \_\_\_\_\_ T-Started 3:28  
 (C) First Final Flow 503  Safety Joint 75 T-Open 5:14  
 (D) Initial Shut-In 1220  Circ Sub 50' T-Pulled 9:00  
 (E) Second Initial Flow 518  Hourly Standby \_\_\_\_\_ T-Out 13:13  
 (F) Second Final Flow 876  Mileage 30RT 30  
 (G) Final Shut-In 1215  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2134  Straddle \_\_\_\_\_  
 Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1555  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1555

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

Approved By Terry McLeod Our Representative Chuck Smith

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. 61688

Well Name & No. Pamenter #1-5 Test No. 2 Date 6-8-15  
 Company Landmark Resources Inc. Elevation 3085 KB 3074 GL  
 Address 1616 S. Voss Rd. STE 600 Houston, TX 77057  
 Co. Rep / Geo. Terry McLeod Rig MDC #21  
 Location: Sec. 5 Twp. 17S Rge. 33W Co. Scott State KS

Interval Tested 4491-4587 Zone Tested Pawnee - Ft. Scott  
 Anchor Length 96 Drill Pipe Run 4243 Mud Wt. 9.2  
 Top Packer Depth 4487 Drill Collars Run 246 Vis 52  
 Bottom Packer Depth 4491 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4587 Chlorides 4500 ppm System LCM 2<sup>#</sup>  
 Blow Description 1" Blow.  
No return.  
No blow.  
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>60</u>	Feet of <u>OSM</u>	%gas	%oil	%water	<u>100%</u> mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

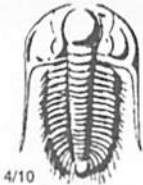
Rec Total 60 BHT 119 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2262</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>00:10</u>
(B) First Initial Flow <u>17</u>	<input type="checkbox"/> Jars _____	T-Started <u>00:13</u>
(C) First Final Flow <u>32</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>3:06</u>
(D) Initial Shut-In <u>8:35</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>5:55</u>
(E) Second Initial Flow <u>36</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>8:05</u>
(F) Second Final Flow <u>46</u>	<input checked="" type="checkbox"/> Mileage <u>30RT</u> 30	Comments _____
(G) Final Shut-In <u>774</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2166</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<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>1605</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1605</u>	

Approved By Jay L. McLeod Our Representative Chuck Smith

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. 61689

Well Name & No. Pammenter #1-5 Test No. 3 Date 6-8-15  
 Company Landmark Resources Inc. Elevation 3085 KB 3074 GL  
 Address 1616 S. Voss Rd. STE 600 Houston TX 77057  
 Co. Rep / Geo. Terry McLeod Rig M.D.C. #21  
 Location: Sec. 5 Twp. 17s Rge. 33w Co. Scott State KS

Interval Tested 4645-4715 Zone Tested Johnson  
 Anchor Length 70 Drill Pipe Run 4400 Mud Wt. 9.3  
 Top Packer Depth 4641 Drill Collars Run 246 Vis 60  
 Bottom Packer Depth 4645 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4715 Chlorides 5600 ppm System LCM 2<sup>nd</sup>  
 Blow Description 1" Blow.  
No return.  
No blow.  
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>65</u>	Feet of <u>OSM</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 65 BHT 122 Gravity — API RW @ °F Chlorides — ppm

(A) Initial Hydrostatic 2364  Test 1150 T-On Location 22:20  
 (B) First Initial Flow 22  Jars — T-Started 22:22  
 (C) First Final Flow 40  Safety Joint 75 T-Open 00:40  
 (D) Initial Shut-In 954  Circ Sub NIC T-Pulled 3:19  
 (E) Second Initial Flow 44  Hourly Standby — T-Out 5:42  
 (F) Second Final Flow 55  Mileage 30RT X2 60 Comments Loaded tool 6-9-15  
 (G) Final Shut-In 894  Sampler — 12:30 No Test  
 (H) Final Hydrostatic 2258  Straddle —  
 Ruined Shale Packer  
 Shale Packer —  Ruined Packer  
 Extra Packer —  Extra Copies  
 Extra Recorder — Sub Total 0  
 Day Standby — Total 1285  
 Accessibility — MP/DST Disc't —  
 Sub Total 1285

Approved By [Signature] Our Representative Chuck Smith

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.