



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1092077  
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: \_\_\_\_\_

1092077

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
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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 1-16
Doc ID	1092077

Tops

Name	Top	Datum
Anhydrite	2435	708
B/Anhydrite	2449	688
Topeka	3781	-627
Heebner	4017	-871
Toronto	4037	-887
Lansing	4061	-916
Muncie Creek	4240	-1103
BKC	4438	-1305
Marmaton	4496	-1357
Pawnee	4590	-1436
Myrick Station	4620	-1480
Fort Scott	4637	-1494
Cherokee	4666	-1521
Johnson Zone	4713	-1566



PO Box 93999  
Southlake, TX 76092

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

# INVOICE

Invoice Number: 132284

Invoice Date: Aug 9, 2012

Page: 1



<b>Bill To:</b>
Landmark Resources, Inc. 1616 S. Voss Suite 600 Houston, TX 77057-1264

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Land	Decker #1-16	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Great Bend	Aug 9, 2012	9/8/12

Quantity	Item	Description	Unit Price	Amount
174.00	MAT	Class A Common	16.25	2,827.50
116.00	MAT	Pozmix	8.50	986.00
10.00	MAT	Gel	21.25	212.50
72.00	MAT	Flo Seal	2.70	194.40
311.00	SER	Cubic Feet	2.10	653.10
650.00	SER	Ton Mileage	2.35	1,527.50
1.00	SER	Plug to Abandon	1,250.00	1,250.00
50.00	SER	Pump Truck Mileage	7.00	350.00
50.00	SER	Light Vehicle Mileage	4.00	200.00
1.00	CEMENTER	Wayne Davis		
1.00	EQUIP OPER	Kevin Eddy		
1.00	EQUIP OPER	Joshua Isaac		
			0.00	
			0.00	
			8,881.68	
			1,640.20	

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

**\$1640.20**

ONLY IF PAID ON OR BEFORE  
**Sep 3, 2012**

Subtotal	000	8,881.68
Sales Tax		680.68
Total Invoice Amount		8,881.68
Payment/Credit Applied		
<b>TOTAL</b>		<b>8,881.68</b>



# ALLIED OIL & GAS SERVICES, LLC 053717

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Grant Bend

DATE <u>8-9-12</u>	SEC. <u>16</u>	TWP. <u>17</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START <u>5:00 PM</u>	JOB FINISH <u>6:00 PM</u>
LEASE <u>Decker</u>		WELL# <u>1-16</u>		LOCATION <u>Scott city N To 4 west Decker</u>		COUNTY <u>Scott</u>	STATE <u>KS</u>
<input checked="" type="radio"/> OLD OR NEW (Circle one)				LOCATION <u>1 No-th 4 west 2 1/2 south 1/2 west south in 1-03</u>			

CONTRACTOR Murkin 2  
 TYPE OF JOB PTA  
 HOLE SIZE 7 7/8 T.D. 5036  
 CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 DEPTH 2470  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 25.50 fresh  
20 BBLs mud  
 EQUIPMENT \_\_\_\_\_  
 PUMP TRUCK CEMENTER Wayne 1  
 # 366 HELPER Kevin Elderly 2  
 BULK TRUCK \_\_\_\_\_  
 # 492/112 DRIVER Sasha L 2  
 BULK TRUCK \_\_\_\_\_  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

OWNER Landmark Resources  
 CEMENT  
 AMOUNT ORDERED 290 SX 60/40 + 4% GC  
+ 1/2 #16 seal  
 COMMON 174 @ 16.25 2,827.50  
 POZMIX 116 @ 8.50 986.00  
 GEL 10 @ 21.25 212.50  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 ASC \_\_\_\_\_ @ \_\_\_\_\_  
1/2 #16 seal 72 @ 2.70 194.40  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING 311 @ 2.10 653.10  
 MILEAGE 13.00 x 50 x 2.35 1,527.50  
 TOTAL 6,401.00

REMARKS:  
1st plug 2470 mix 50SX Dis 588Ls  
20 BBLs mud  
2nd plug 1460 mix 20 SX Dis 14 BBLs  
3rd plug 720 mix 40SX Dis 6 BBLs  
4th plug 270 mix 50SX Dis .50 BBL  
5th plug 600 mix 20SX  
Mouse mix 20SX  
Rat mix 30SX washup  
Rig Down

SERVICE  
 DEPTH OF JOB 2470  
 PUMP TRUCK CHARGE 1250.00  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE Hum 50 @ 7.00 350.00  
 MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_  
Hum 50 @ 4.00 200.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL 1800.00

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

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.

TOTAL \_\_\_\_\_  
 SALES TAX (if Any) 680.68  
 TOTAL CHARGES 8201.00  
1640.20  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
6,560.80

PRINTED NAME Amara Cabera  
 SIGNATURE \_\_\_\_\_



PAID AUG 6 - 2012  
 #41740  
 60,696.37

# INVOICE

PO Box 93999  
 Southlake, TX 76092

Invoice Number: 132135  
 Invoice Date: Jul 30, 2012  
 Page: 1

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



71730

**Bill To:**  
 Landmark Resources, Inc.  
 1616 S. Voss  
 ST #150  
 Houston, TX 77057-1264

Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Land	Decker #1-16	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Jul 30, 2012	8/29/12

Quantity	Item	Description	Unit Price	Amount
175.00	MAT	Class A Common	16.25	2,843.75
3.00	MAT	Gel	21.25	63.75
6.00	MAT	Chloride	58.20	349.20
189.24	SER	Cubic Feet	2.10	397.40
432.00	SER	Ton Mileage	2.35	1,015.20
1.00	SER	Surface	1,125.00	1,125.00
50.00	SER	Pump Truck Mileage	7.00	350.00
1.00	SER	Manifold Swedge Rental	325.00	325.00
50.00	SER	Light Vehicle Mileage	4.00	200.00
1.00	CEMENTER	LaRene Wentz		
1.00	EQUIP OPER	Dane Retzloff		
1.00	OPER ASSIST	D J Gray		

APPROVED AUG 06 2012

ALL PRICES ARE NET, PAYABLE  
 30 DAYS FOLLOWING DATE OF  
 INVOICE. 1 1/2% CHARGED  
 THEREAFTER. IF ACCOUNT IS  
 CURRENT, TAKE DISCOUNT OF  
 \$ 1333.86  
 ONLY IF PAID ON OR BEFORE  
 Aug 24, 2012

Subtotal	6,669.30
Sales Tax	0.00
Total Invoice Amount	6,939.61
Payment/Credit Applied	0.00
<b>TOTAL</b>	<b>6,939.61</b>

6,939.61 +  
 1,333.86 -  
 5,605.75 \*



# ALLIED CEMENTING CO., LLC. 034519

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Oakley, KS

DATE <u>7-30-12</u>	SEC. <u>16</u>	TWP. <u>17</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION <u>8:00 am</u>	JOB START <u>8:50 am</u>	JOB FINISH <u>9:00 pm</u>
LEASE <u>Dexter</u>	WELL.# <u>1-16</u>	LOCATION <u>Payette #3129</u>	LOCATION <u>Healy #1077</u>	COUNTY <u>Scott</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)		<u>Wichita #15-120, 121, 122, 123, 124</u>					

CONTRACTOR <u>Murphy #2</u>	OWNER <u>same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 7/8"</u>	T.D. <u>256'</u>
CASING SIZE <u>2 3/8"</u>	DEPTH <u>256'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>151</u>	
PERFS.	
DISPLACEMENT <u>15.34 bbl</u>	
COMMON <u>175 sls</u>	@ <u>16.25</u> <u>2843.75</u>
POZMIX	@
GEL <u>350</u>	@ <u>16.25</u> <u>5687.50</u>
CHLORIDE <u>650</u>	@ <u>58.20</u> <u>37812.00</u>
ASC	@

EQUIPMENT	
PUMP TRUCK CEMENTER <u>LaRene Westfal</u>	
# <u>431</u> HELPER <u>Dane Retzlaff</u>	
BULK TRUCK	
# <u>580/887</u> DRIVER <u>D.J. Gray</u>	<u>3</u>
BULK TRUCK	
#	DRIVER
HANDLING <u>109.2453</u>	@ <u>2.10</u> <u>2294.15</u>
MILEAGE <u>50</u>	@ <u>20.30</u> <u>1015.00</u>
	TOTAL <u>4669.30</u>

REMARKS:  
Mix 175 sls cement  
Displace with water  
Cement did circulate.

Thank you

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

SERVICE

DEPTH OF JOB <u>256'</u>	
PUMP TRUCK CHARGE <u>1125.00</u>	
EXTRA FOOTAGE @	
MILEAGE <u>50</u> @ <u>7.00</u>	<u>350.00</u>
MANIFOLD <u>20 wedge</u> @	<u>375.00</u>
<u>20, mileage 50</u> @ <u>4.00</u>	<u>200.00</u>
	TOTAL <u>2000.00</u>

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	TOTAL	

To Allied Cementing Co., 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.

SALES TAX (if Any) 270.30  
TOTAL CHARGES 6,669.30  
DISCOUNT 20 1333.86 IF PAID IN 30 DAYS

PRINTED NAME: Arno Cabera  
SIGNATURE \_\_\_\_\_

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

Sam Brownback, Governor

September 06, 2012

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

Re: ACO1  
API 15-171-20898-00-00  
Decker 1-16  
SW/4 Sec.16-17S-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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources, Inc.

**S.16-17s-34w Scott, KS**

1616 S. Voss Rd.  
Suite 150  
Houston, TX 77057  
ATTN: Wes Hansen

**Decker #1-16**

Job Ticket: 48945

**DST#: 1**

Test Start: 2012.08.04 @ 07:40:00

## GENERAL INFORMATION:

Formation: **Lansing 'I-J'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:55:40

Time Test Ended: 15:36:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 62

**Interval: 4384.00 ft (KB) To 4340.00 ft (KB) (TVD)**

Reference Elevations: 3144.00 ft (KB)

Total Depth: 4340.00 ft (KB) (TVD)

3133.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8018**

**Inside**

Press @ Run Depth: 645.42 psig @ 4285.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.04

End Date:

2012.08.04

Last Calib.: 2012.08.04

Start Time: 07:40:02

End Time:

15:36:20

Time On Btm: 2012.08.04 @ 09:54:10

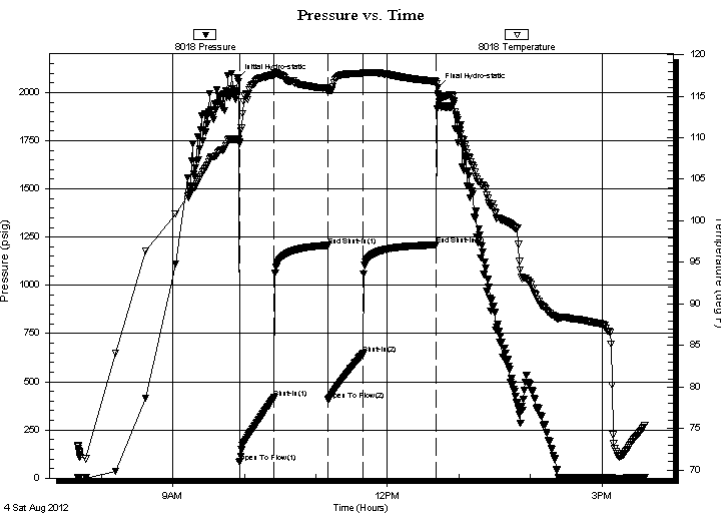
Time Off Btm: 2012.08.04 @ 12:42:20

TEST COMMENT: B.O.B. @ 5 min.

No return.

B.O.B. @ 5 1/2 min.

No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2074.27	109.77	Initial Hydro-static
2	82.14	109.37	Open To Flow (1)
31	416.91	117.55	Shut-In(1)
76	1207.43	115.87	End Shut-In(1)
76	406.91	115.51	Open To Flow (2)
106	645.42	117.72	Shut-In(2)
167	1209.91	116.78	End Shut-In(2)
169	2026.76	115.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW:.160 @ 70 Degrees F = 47000 PFM	0.00
656.00	MW 15m 85w	7.05
283.00	M 100m	3.97
472.00	W 100w	6.62

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources, Inc.

**S.16-17s-34w Scott, KS**

1616 S. Voss Rd.  
Suite 150  
Houston, TX 77057  
ATTN: Wes Hansen

**Decker #1-16**

Job Ticket: 48945

**DST#: 1**

Test Start: 2012.08.04 @ 07:40:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 8.77 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: 47000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW:.160 @ 70 Degrees F = 47000 PPM	0.000
656.00	MW 15m 85w	7.052
283.00	M 100m	3.970
472.00	W 100w	6.621

Total Length: 1411.00 ft      Total Volume: 17.643 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

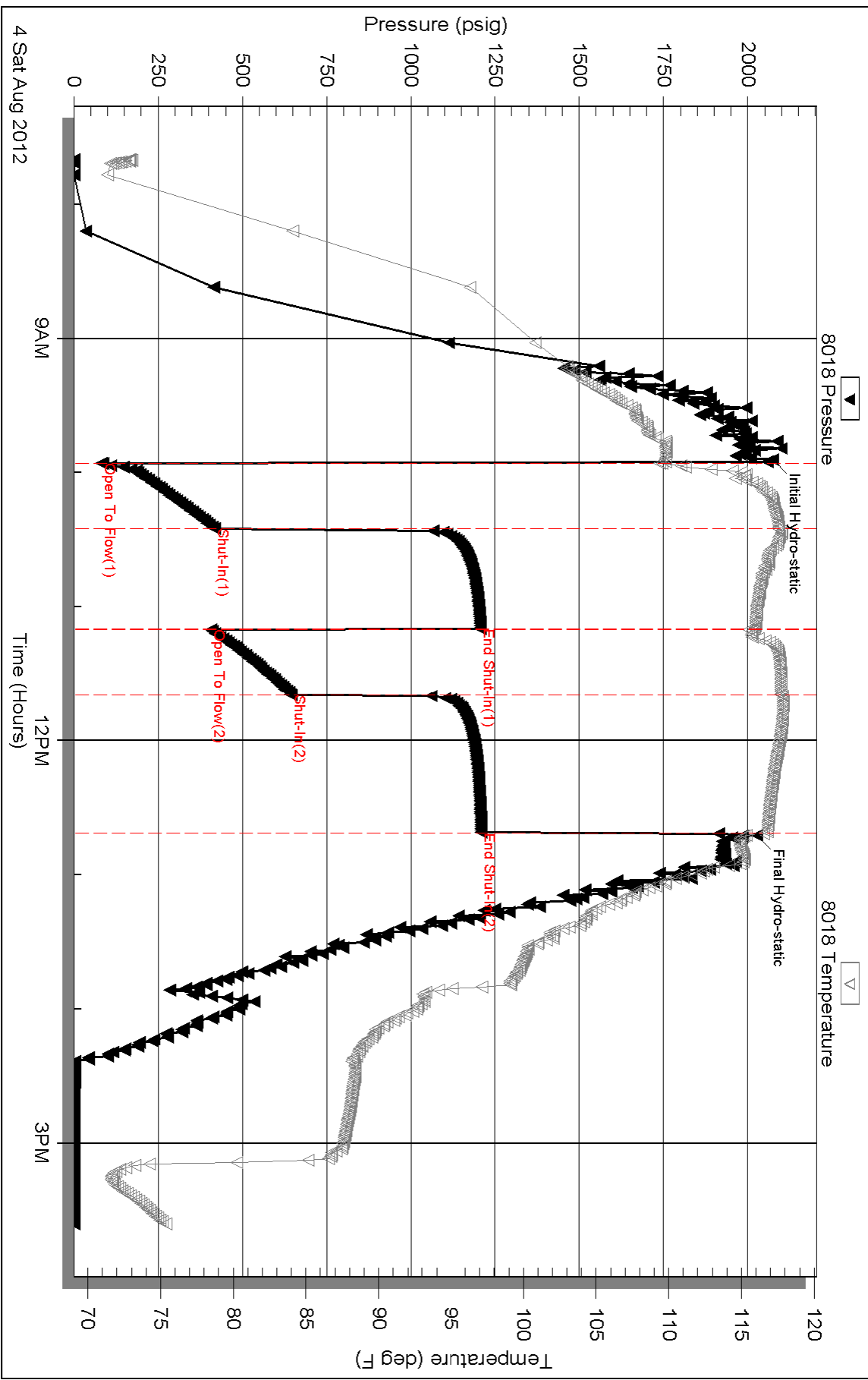
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time



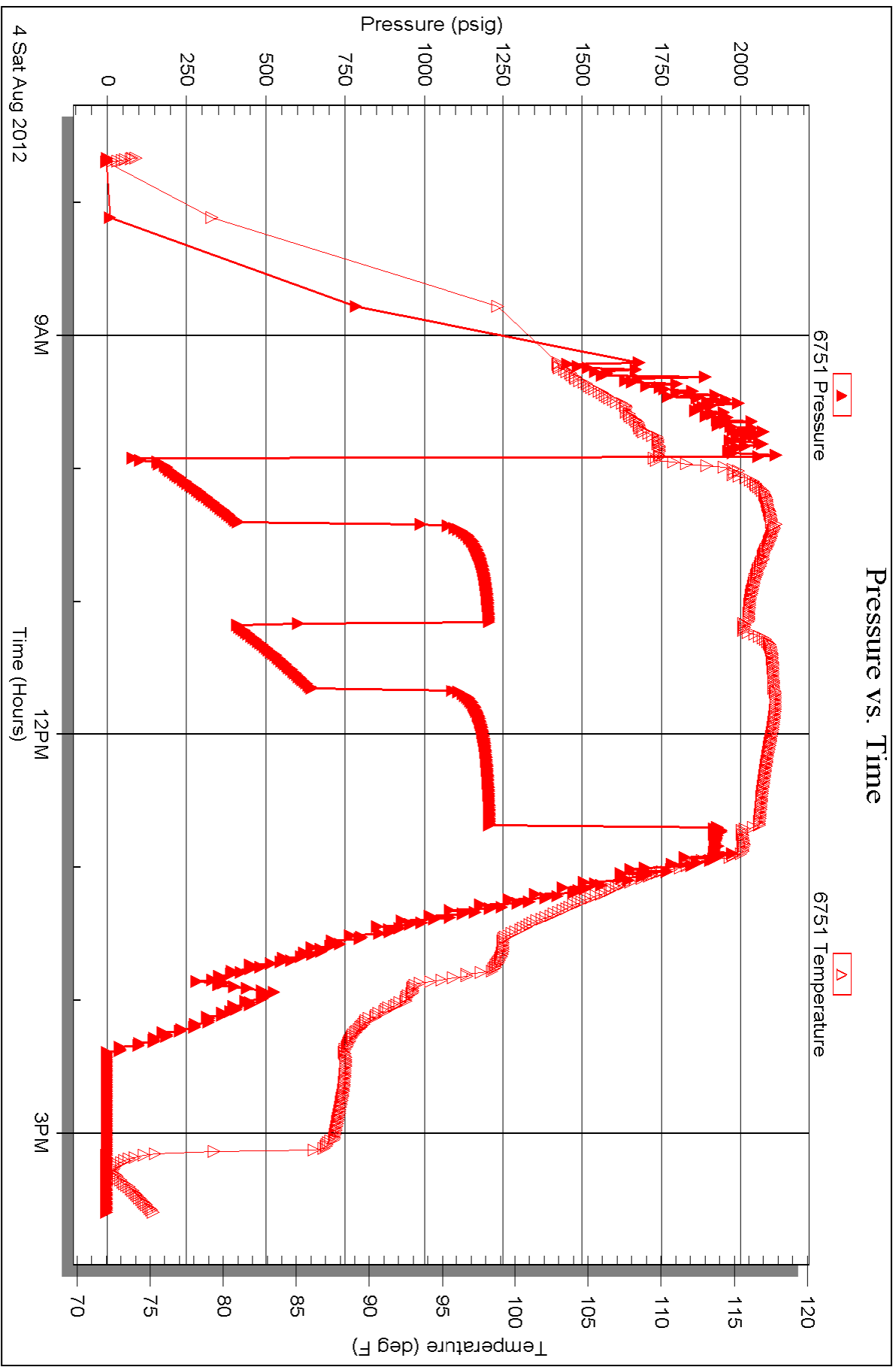


Serial #: 6751

Outside Landmark Resources, Inc.

Decker #1-16

DST Test Number: 1





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Landmark Resources, Inc.

**S.16-17s-34w Scott, KS**

1616 S. Voss Rd.  
Suite 150  
Houston, TX 77057  
ATTN: Wes Hansen

**Decker #1-16**

Job Ticket: 48946

**DST#: 2**

Test Start: 2012.08.05 @ 00:15:00

## GENERAL INFORMATION:

Formation: **Lansing 'K'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:05:10

Time Test Ended: 06:43:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

**Interval: 4340.00 ft (KB) To 4360.00 ft (KB) (TVD)**

Reference Elevations: 3144.00 ft (KB)

Total Depth: 4360.00 ft (KB) (TVD)

3133.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8018**

**Inside**

Press @ Run Depth: 31.45 psig @ 4342.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.05

End Date:

2012.08.05

Last Calib.: 2012.08.05

Start Time: 00:15:02

End Time:

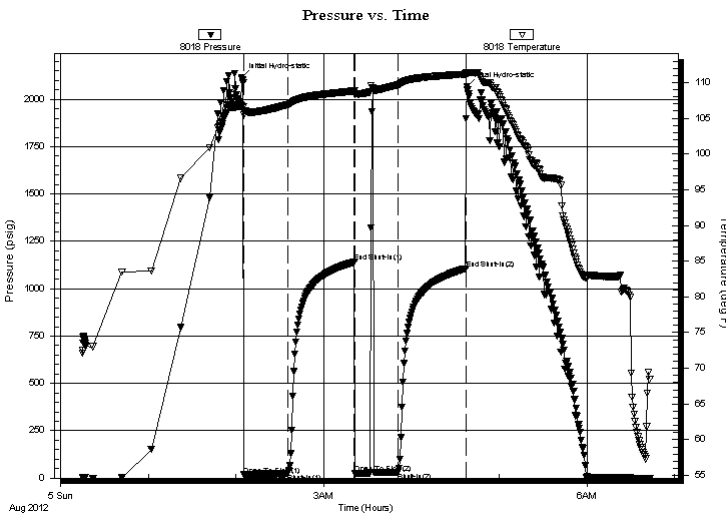
06:43:10

Time On Btm: 2012.08.05 @ 02:04:00

Time Off Btm: 2012.08.05 @ 04:38:00

**TEST COMMENT:** 1/2" Blow receded to surface blow .  
No return.  
No blow , flushed tool, surge died.  
No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.52	106.69	Initial Hydro-static
2	17.66	105.46	Open To Flow (1)
32	23.96	106.88	Shut-In(1)
77	1140.39	108.81	End Shut-In(1)
78	26.12	108.34	Open To Flow (2)
107	31.45	109.63	Shut-In(2)
154	1107.01	111.17	End Shut-In(2)
154	2067.50	111.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	OSM 100m	0.22

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources, Inc.

**S.16-17s-34w Scott, KS**

1616 S. Voss Rd.  
Suite 150  
Houston, TX 77057  
ATTN: Wes Hansen

**Decker #1-16**

Job Ticket: 48946

**DST#: 2**

Test Start: 2012.08.05 @ 00:15:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 8.00 lb/gal

Viscosity: 55.00 sec/qt

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

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	OSM 100m	0.221

Total Length: 45.00 ft      Total Volume: 0.221 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

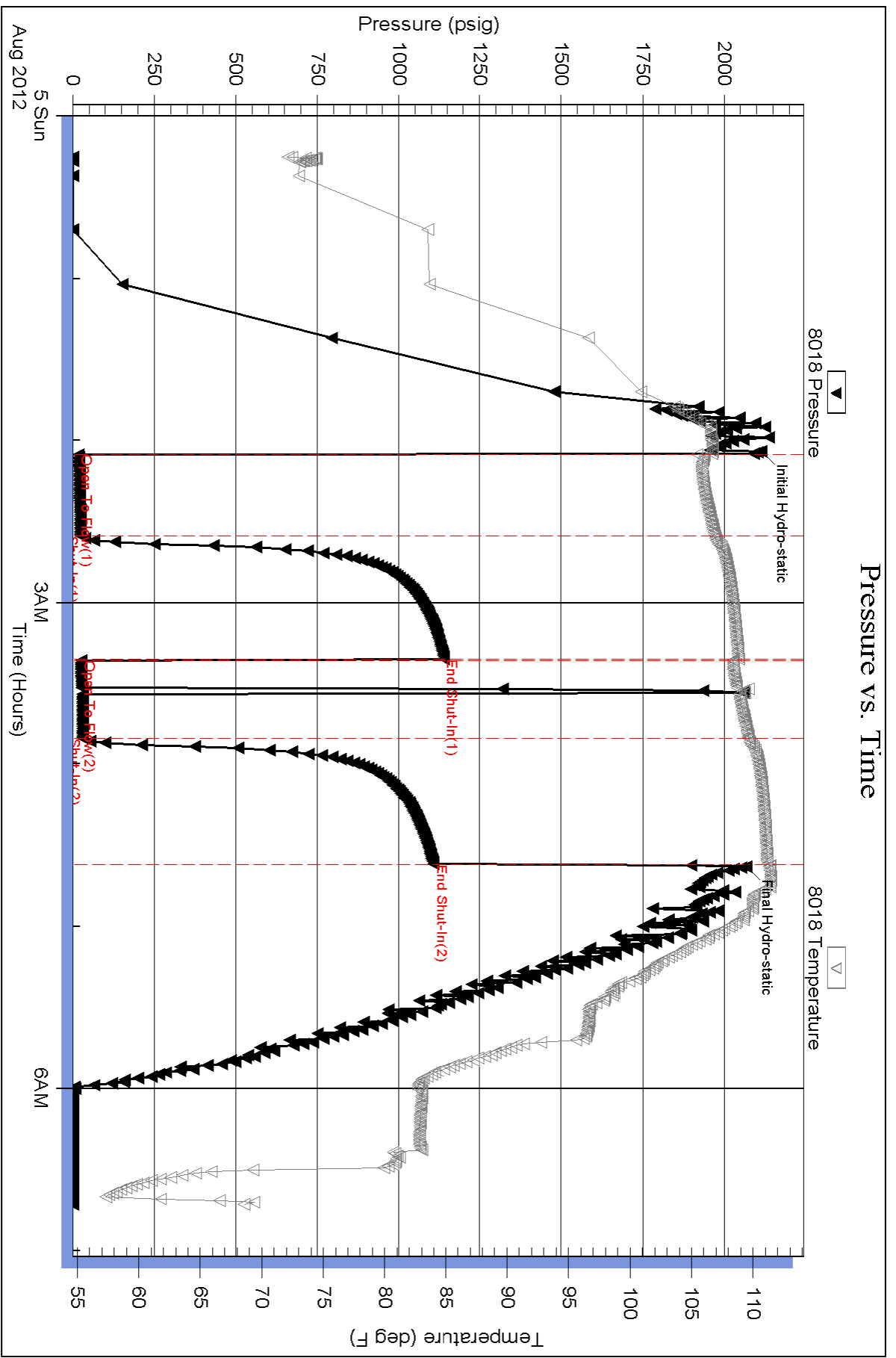
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



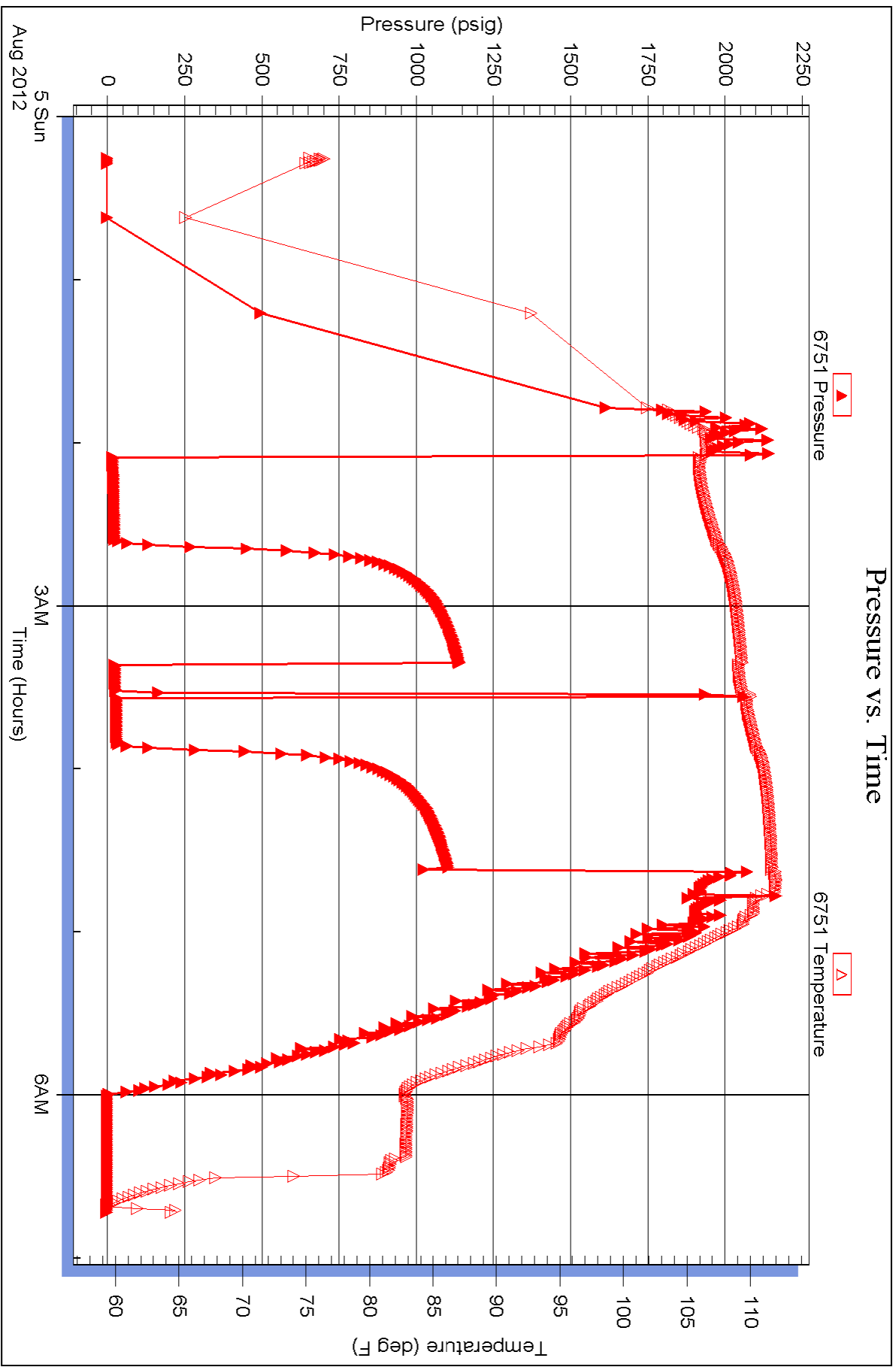


Serial #: 6751

Outside Landmark Resources, Inc.

Decker #1-16

DST Test Number: 2





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources, Inc.

**S.16-17s-34w Scott, KS**

1616 S. Voss Rd.  
Suite 150  
Houston, TX 77057  
ATTN: Wes Hansen

**Decker #1-16**

Job Ticket: 48947

**DST#: 3**

Test Start: 2012.08.06 @ 00:36:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:36:50

Time Test Ended: 07:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

**Interval: 4462.00 ft (KB) To 4520.00 ft (KB) (TVD)**

Total Depth: 4520.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3144.00 ft (KB)

3133.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8018**

**Inside**

Press @ Run Depth: 34.76 psig @ 4463.00 ft (KB)

Start Date: 2012.08.06

End Date:

2012.08.06

Start Time: 00:36:02

End Time:

07:05:00

Capacity: 8000.00 psig

Last Calib.: 2012.08.06

Time On Btm: 2012.08.06 @ 02:35:40

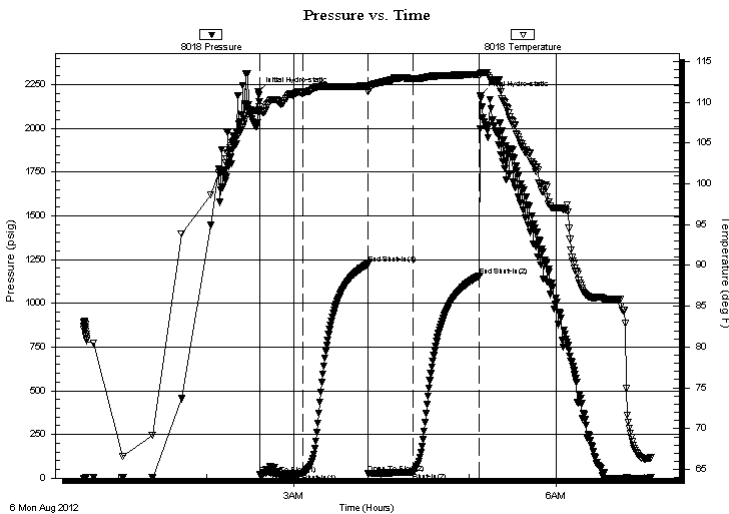
Time Off Btm: 2012.08.06 @ 05:08:00

**TEST COMMENT:** 1/2" Blow receded to surface blow .

No return.

No blow .

No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2208.64	108.95	Initial Hydro-static
2	19.35	108.71	Open To Flow (1)
31	25.84	111.09	Shut-In(1)
76	1223.17	111.98	End Shut-In(1)
76	28.50	111.27	Open To Flow (2)
107	34.76	112.87	Shut-In(2)
152	1155.79	113.42	End Shut-In(2)
153	2185.88	113.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	OSM 100m	0.22

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources, Inc.

**S.16-17s-34w Scott, KS**

1616 S. Voss Rd.  
Suite 150  
Houston, TX 77057  
ATTN: Wes Hansen

**Decker #1-16**

Job Ticket: 48947

**DST#: 3**

Test Start: 2012.08.06 @ 00:36:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 63.00 sec/qt

Water Loss: 8.78 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6200.00 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
45.00	OSM 100m	0.221

Total Length: 45.00 ft      Total Volume: 0.221 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

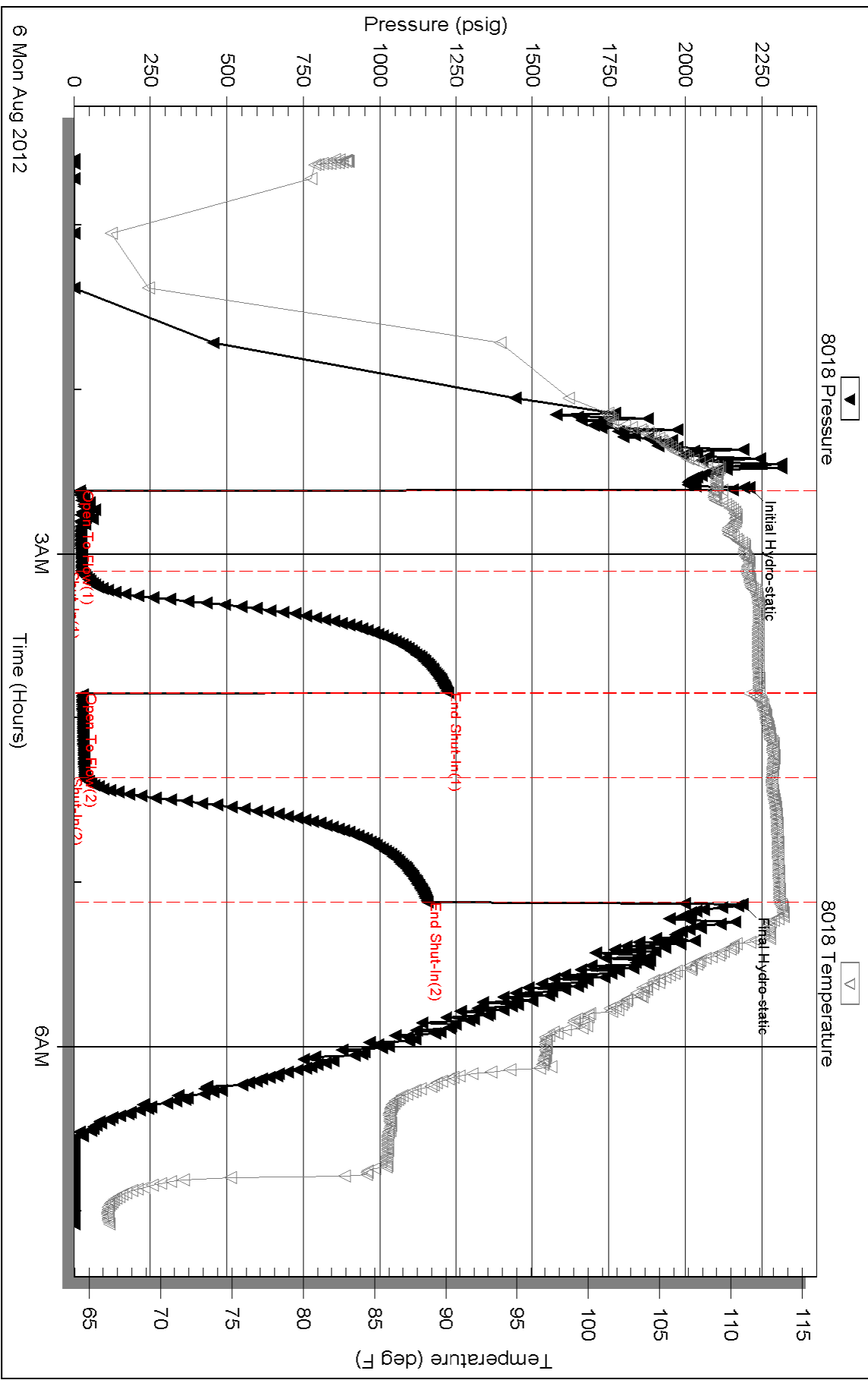
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources, Inc.

**S.16-17s-34w Scott, KS**

1616 S. Voss Rd.  
Suite 150  
Houston, TX 77057  
ATTN: Wes Hansen

**Decker #1-16**

Job Ticket: 48948

**DST#: 4**

Test Start: 2012.08.06 @ 21:34:02

## GENERAL INFORMATION:

Formation: **Altamont - Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:22:10

Time Test Ended: 04:08:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

**Interval: 4527.00 ft (KB) To 4622.00 ft (KB) (TVD)**

Reference Elevations: 3144.00 ft (KB)

Total Depth: 4622.00 ft (KB) (TVD)

3133.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8018 Inside**

Press @ Run Depth: 22.14 psig @ 4531.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.06

End Date:

2012.08.07

Last Calib.:

2012.08.07

Start Time: 21:34:02

End Time:

04:08:49

Time On Btm:

2012.08.07 @ 00:21:00

Time Off Btm:

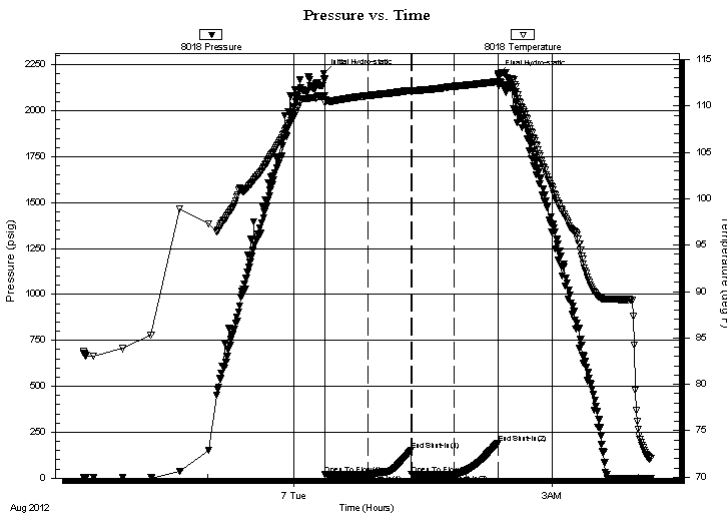
2012.08.07 @ 02:22:40

**TEST COMMENT:** 1/4" Blow died @ 14 min.

No return.

No blow.

No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2203.43	111.06	Initial Hydro-static
2	19.89	110.32	Open To Flow (1)
31	20.96	111.10	Shut-In(1)
61	151.57	111.67	End Shut-In(1)
62	21.49	111.58	Open To Flow (2)
91	22.14	112.10	Shut-In(2)
122	190.78	112.61	End Shut-In(2)
122	2198.49	113.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	M100m Oil spots in tool.	0.07

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources, Inc.

**S.16-17s-34w Scott, KS**

1616 S. Voss Rd.  
Suite 150  
Houston, TX 77057  
ATTN: Wes Hansen

**Decker #1-16**

Job Ticket: 48948

**DST#: 4**

Test Start: 2012.08.06 @ 21:34:02

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 65.00 sec/qt

Water Loss: 8.78 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	M 100m Oil spots in tool.	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

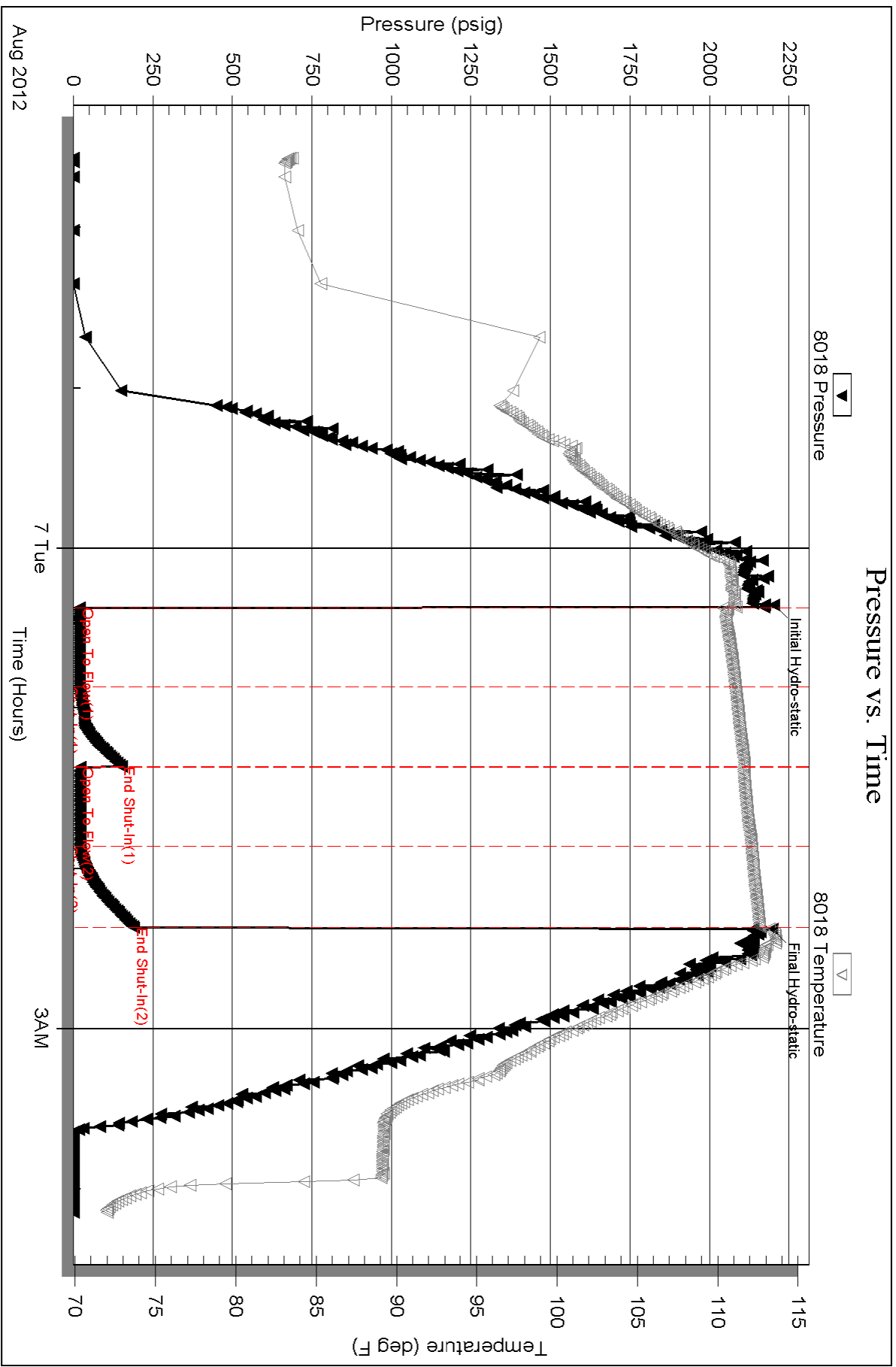
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources, Inc.

**S.16-17s-34w Scott, KS**

1616 S. Voss Rd.  
Suite 150  
Houston, TX 77057  
ATTN: Wes Hansen

**Decker #1-16**

Job Ticket: 48949

**DST#: 5**

Test Start: 2012.08.07 @ 22:14:03

## GENERAL INFORMATION:

Formation: **Cherokee - Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:48:03

Time Test Ended: 04:48:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

**Interval: 4680.00 ft (KB) To 4800.00 ft (KB) (TVD)**

Reference Elevations: 3144.00 ft (KB)

Total Depth: 4800.00 ft (KB) (TVD)

3133.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8018 Inside**

Press @ Run Depth: 27.02 psig @ 4681.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.07

End Date:

2012.08.08

Last Calib.: 2012.08.08

Start Time: 22:13:02

End Time:

04:47:40

Time On Btm: 2012.08.08 @ 00:46:00

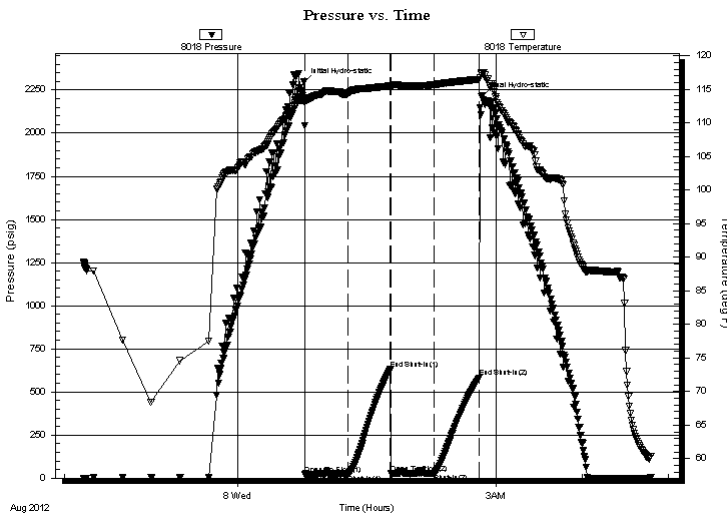
Time Off Btm: 2012.08.08 @ 02:50:00

**TEST COMMENT:** 1/2" Blow died @ 18 min.

No return.

No blow.

No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2295.54	113.34	Initial Hydro-static
1	21.16	113.04	Open To Flow (1)
31	24.20	114.34	Shut-In(1)
61	629.72	115.50	End Shut-In(1)
61	25.50	115.20	Open To Flow (2)
91	27.02	115.70	Shut-In(2)
123	583.55	116.48	End Shut-In(2)
124	2212.35	117.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	M 100m Oil spot in tool.	0.07

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources, Inc.

**S.16-17s-34w Scott, KS**

1616 S. Voss Rd.  
Suite 150  
Houston, TX 77057  
ATTN: Wes Hansen

**Decker #1-16**

Job Ticket: 48949

**DST#: 5**

Test Start: 2012.08.07 @ 22:14:03

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 65.00 sec/qt

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

Resistivity: ohm.m

Salinity: 7200.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	M 100m Oil spot in tool.	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

