

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	WESSELER 3-28
Doc ID	1348299

All Electric Logs Run

Dual Induction
Borehole Compensated Sonic
Gamma Ray / Caliper
Microresistivity
Dual Comp Porosity

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	WESSELER 3-28
Doc ID	1348299

Tops

Name	Top	Datum
Anhydrite	2443	695
B/ Anhydrite	2463	675
Topeka	3754	-616
Heebner	3993	-855
Toronto	4011	-873
Lansing	4037	-899
C	4077	-939
D	4092	-954
E	4138	-1000
F	4150	-1012
G	4168	-1030
Muncie Creek	4222	-1084
H	4234	-1096
I	4270	-1132
J	4296	-1158
Stark Shale	4317	-1179
K	4331	-1193
L	4375	-1237
BKC	4404	-1266
Marmaton	4462	-1324
Altamont	4489	-1351
Pawnee	4535	-1397
Myrick Station	4578	-1440
Fort Scott	4588	-1450

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	WESSELER 3-28
Doc ID	1348299

Tops

Name	Top	Datum
Cherokee	4616	-1478
Johnson	4662	-1524
Morrow Shale	4740	-1602
U Morrow Shale	4761	-1623
Missippian	4809	-1671



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources**

1616 Voss Rd. STE 800
Houston TX 77057

ATTN: Terry McLeod

Wesseler #3-28

28-16s-34w Scott,KS

Start Date: 2016.12.02 @ 04:14:15

End Date: 2016.12.02 @ 10:40:15

Job Ticket #: 65682 DST #: 1

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

Printed: 2016.12.06 @ 16:26:47



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources
1616 Voss Rd. STE 800
Houston TX 77057
ATTN: Terry McLeod

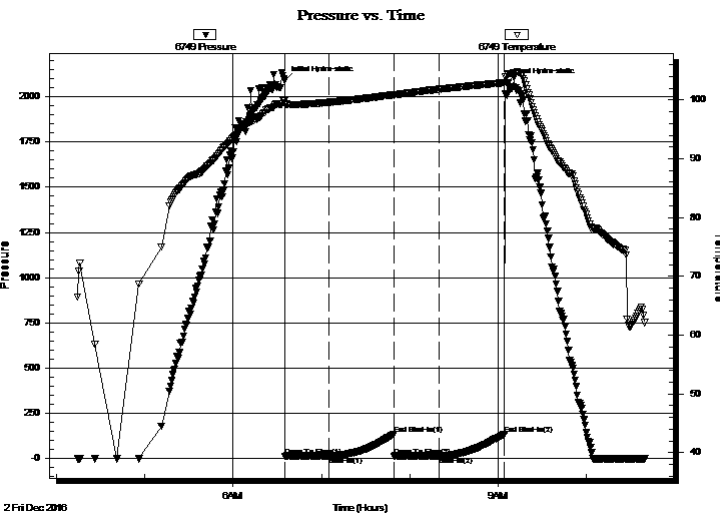
28-16s-34w Scott,KS
Wesseler #3-28
Job Ticket: 65682 **DST#: 1**
Test Start: 2016.12.02 @ 04:14:15

GENERAL INFORMATION:

Formation: **LKC I**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:35:15
Time Test Ended: 10:40:15
Interval: **4259.00 ft (KB) To 4290.00 ft (KB) (TVD)**
Total Depth: 4259.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 3138.00 ft (KB)
3133.00 ft (CF)
KB to GR/CF: 5.00 ft
Test Type: Conventional Bottom Hole (Initial)
Tester: Mike Roberts
Unit No: 81

Serial #: 6749 Outside
Press@RunDepth: 14.02 psig @ 4260.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.12.02 End Date: 2016.12.02 Last Calib.: 2016.12.02
Start Time: 04:14:15 End Time: 10:40:15 Time On Btm: 2016.12.02 @ 06:35:00
Time Off Btm: 2016.12.02 @ 09:06:30

TEST COMMENT: IF: Built to 1/4" blow
IS: No return blow
FF: No blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2089.39	99.88	Initial Hydro-static
1	13.84	99.29	Open To Flow (1)
31	14.79	99.59	Shut-In(1)
75	135.71	100.87	End Shut-In(1)
75	13.10	100.82	Open To Flow (2)
105	14.02	101.81	Shut-In(2)
150	133.73	102.93	End Shut-In(2)
152	2078.65	104.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources
1616 Voss Rd. STE 800
Houston TX 77057
ATTN: Terry McLeod

28-16s-34w Scott,KS

Wesseler #3-28

Job Ticket: 65682 **DST#: 1**
Test Start: 2016.12.02 @ 04:14:15

GENERAL INFORMATION:

Formation: **LKC I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:35:15

Time Test Ended: 10:40:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: **4259.00 ft (KB) To 4290.00 ft (KB) (TVD)**

Reference Elevations: 3138.00 ft (KB)

Total Depth: 4259.00 ft (KB) (TVD)

3133.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8672

Inside

Press@RunDepth: psig @ 4260.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.12.02

End Date:

2016.12.02

Last Calib.:

2016.12.02

Start Time: 04:14:15

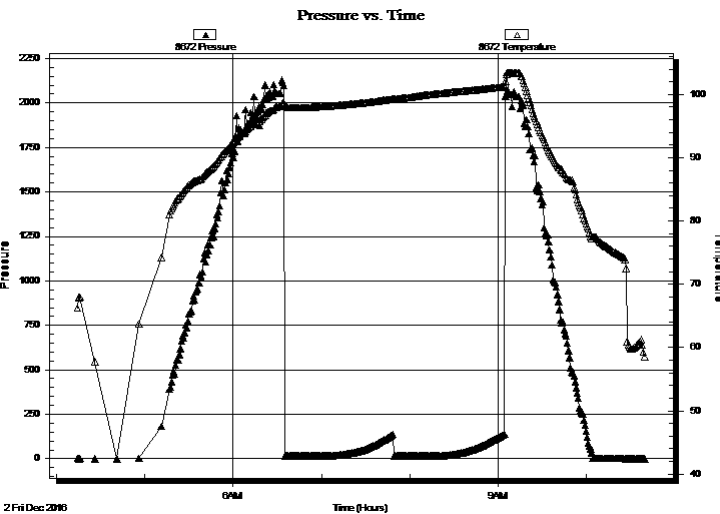
End Time:

10:40:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to 1/4" blow
IS: No return blow
FF: No blow
FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources

28-16s-34w Scott,KS

1616 Voss Rd. STE 800
Houston TX 77057

Wesseler #3-28

Job Ticket: 65682

DST#: 1

ATTN: Terry McLeod

Test Start: 2016.12.02 @ 04:14:15

Tool Information

Drill Pipe:	Length: 4246.00 ft	Diameter: 3.80 inches	Volume: 59.56 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 59.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4259.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4241.00	
Shut In Tool	5.00			4246.00	
Hydraulic tool	5.00			4251.00	
Safety Joint	3.00			4254.00	
Packer	5.00			4259.00	19.00 Bottom Of Top Packer
Packer - Shale	0.00			4259.00	
Stubb	1.00			4260.00	
Recorder	0.00	8672	Inside	4260.00	
Recorder	0.00	6749	Outside	4260.00	
Perforations	25.00			4285.00	
Bullnose	5.00			4290.00	31.00 Anchor Tool

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources

28-16s-34w Scott,KS

1616 Voss Rd. STE 800
Houston TX 77057

Wesseler #3-28

Job Ticket: 65682

DST#: 1

ATTN: Terry McLeod

Test Start: 2016.12.02 @ 04:14:15

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

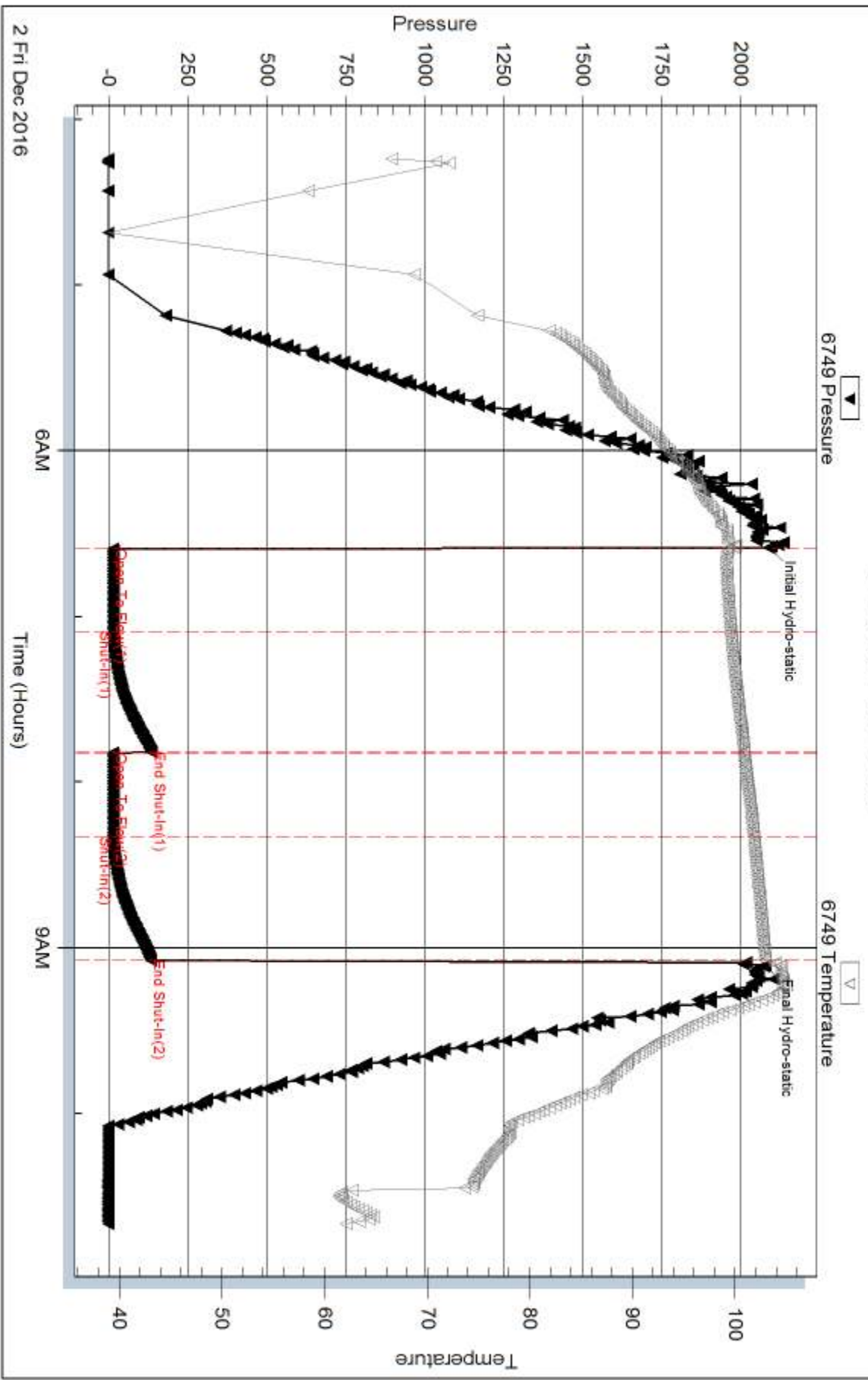
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



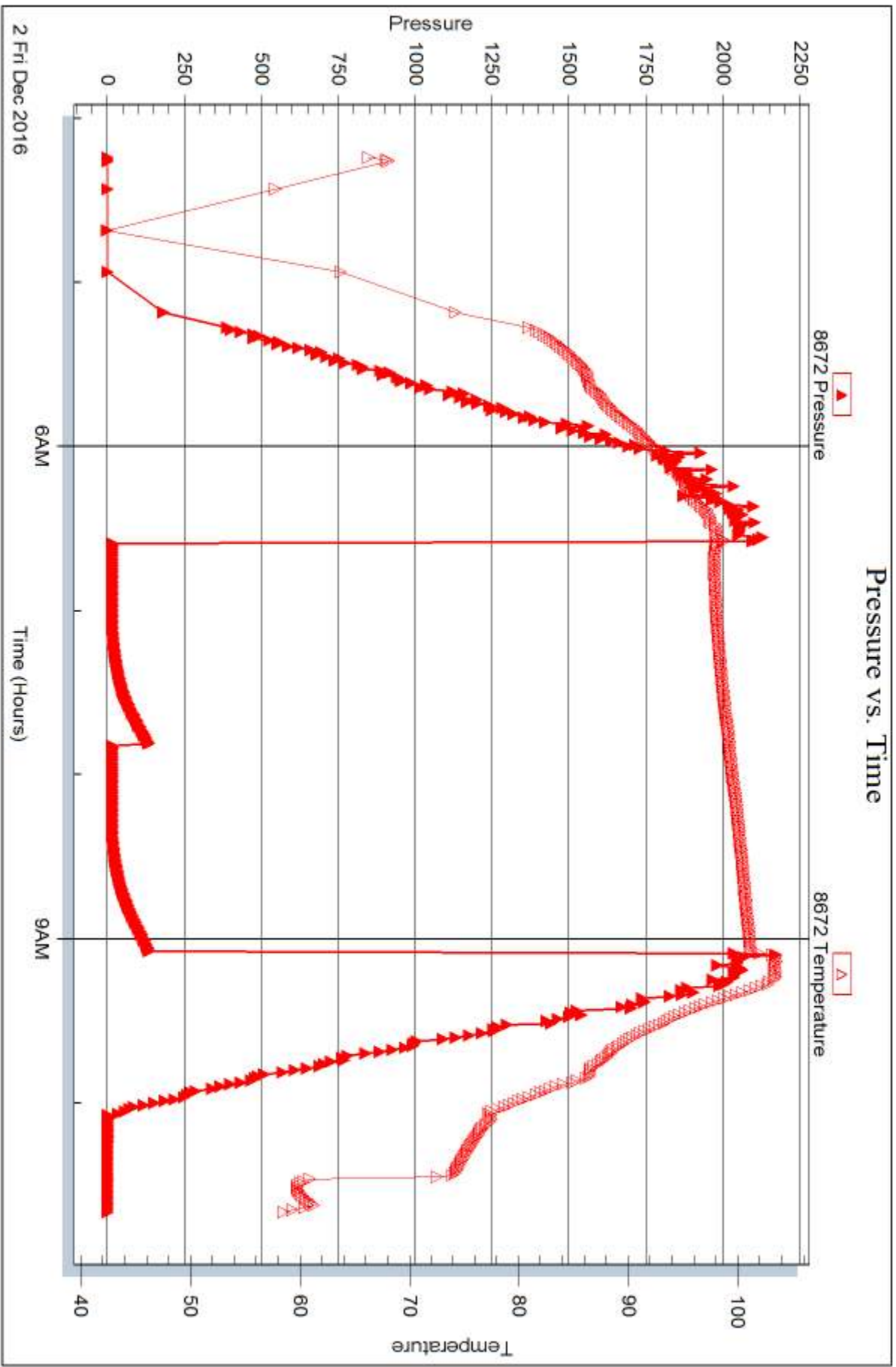
Serial #: 8672

Inside

Landmark Resources

Wesseler #3-28

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65682

Printed: 2016.12.06 @ 16:26:48



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources**

1616 Voss Rd. STE 800
Houston TX 77057

ATTN: Terry McLeod

Wesseler #3-28

28-16s-34w Scott,KS

Start Date: 2016.12.03 @ 14:13:15

End Date: 2016.12.03 @ 22:11:00

Job Ticket #: 65683 DST #: 2

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

Printed: 2016.12.06 @ 16:26:24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources
1616 Voss Rd. STE 800
Houston TX 77057
ATTN: Terry McLeod

28-16s-34w Scott,KS
Wesseler #3-28
Job Ticket: 65683 **DST#: 2**
Test Start: 2016.12.03 @ 14:13:15

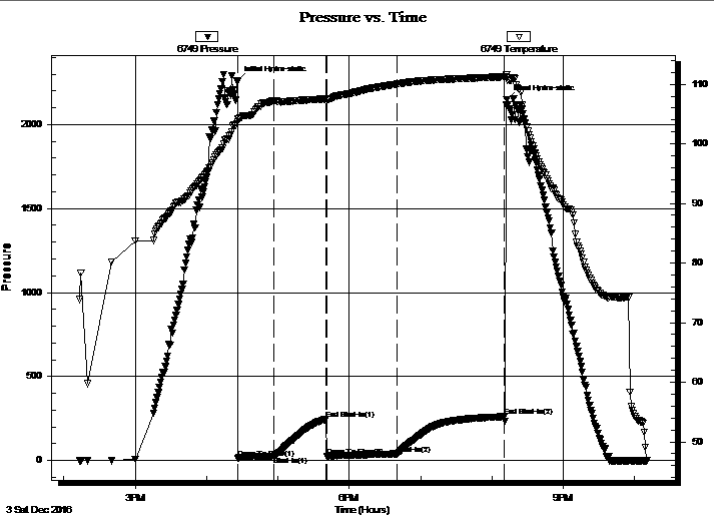
GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:26:15
Time Test Ended: 22:11:00
Interval: **4472.00 ft (KB) To 4503.00 ft (KB) (TVD)**
Total Depth: 4503.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Mike Roberts
Unit No: 81
Reference Elevations: 3138.00 ft (KB)
3133.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6749 Outside

Press@RunDepth: 39.09 psig @ 4473.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.12.03 End Date: 2016.12.03 Last Calib.: 2016.12.03
Start Time: 14:13:15 End Time: 22:11:00 Time On Btm: 2016.12.03 @ 16:26:00
Time Off Btm: 2016.12.03 @ 20:12:30

TEST COMMENT: IF: Built to 2" blow
IS: No return blow
FF: Built to 5" blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.99	104.13	Initial Hydro-static
1	14.92	103.67	Open To Flow (1)
31	24.45	107.21	Shut-In(1)
75	244.83	107.53	End Shut-In(1)
75	24.65	107.33	Open To Flow (2)
135	39.09	110.02	Shut-In(2)
225	261.16	111.25	End Shut-In(2)
227	2148.92	111.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	372 ft GIP	0.00
10.00	gco 10%g 90%o	0.14
62.00	gcmo 5%g 30%m 65%o	0.87

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources
 1616 Voss Rd. STE 800
 Houston TX 77057
 ATTN: Terry McLeod

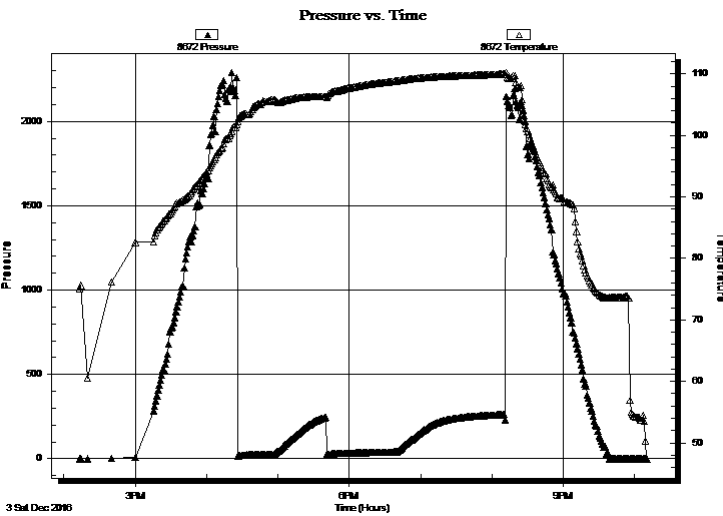
28-16s-34w Scott,KS
Wesseler #3-28
 Job Ticket: 65683 **DST#: 2**
 Test Start: 2016.12.03 @ 14:13:15

GENERAL INFORMATION:

Formation: Marmaton	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Mike Roberts
Time Tool Opened: 16:26:15	Unit No: 81
Time Test Ended: 22:11:00	Reference Elevations: 3138.00 ft (KB)
Interval: 4472.00 ft (KB) To 4503.00 ft (KB) (TVD)	3133.00 ft (CF)
Total Depth: 4503.00 ft (KB) (TVD)	KB to GR/CF: 5.00 ft
Hole Diameter: 7.88 inches	Hole Condition: Fair

Serial #: 8672	Inside		
Press@RunDepth: psig @ 4473.00 ft (KB)	Capacity: 8000.00 psig		
Start Date: 2016.12.03	End Date: 2016.12.03	Last Calib.: 2016.12.03	
Start Time: 14:13:15	End Time: 22:11:00	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF:Built to 2" blow
 IS:No return blow
 FF:Built to 5" blow
 FS:No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	372 ft GIP	0.00
10.00	gco 10%g 90%o	0.14
62.00	gcmo 5%g 30%m 65%o	0.87

* 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

28-16s-34w Scott,KS

1616 Voss Rd. STE 800
Houston TX 77057

Wesseler #3-28

Job Ticket: 65683

DST#: 2

ATTN: Terry McLeod

Test Start: 2016.12.03 @ 14:13:15

Tool Information

Drill Pipe:	Length: 4463.00 ft	Diameter: 3.80 inches	Volume: 62.60 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4472.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4454.00	
Shut In Tool	5.00			4459.00	
Hydraulic tool	5.00			4464.00	
Safety Joint	3.00			4467.00	
Packer	5.00			4472.00	19.00 Bottom Of Top Packer
Packer - Shale	0.00			4472.00	
Stubb	1.00			4473.00	
Recorder	0.00	8672	Inside	4473.00	
Recorder	0.00	6749	Outside	4473.00	
Perforations	25.00			4498.00	
Bullnose	5.00			4503.00	31.00 Anchor Tool

Total Tool Length: 50.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources

28-16s-34w Scott,KS

1616 Voss Rd. STE 800
Houston TX 77057

Wesseler #3-28

Job Ticket: 65683

DST#: 2

ATTN: Terry McLeod

Test Start: 2016.12.03 @ 14:13:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	372 ft GIP	0.000
10.00	gco 10%g 90%o	0.140
62.00	gcmo 5%g 30%m 65%o	0.870

Total Length: 72.00 ft Total Volume: 1.010 bbl

Num Fluid Samples: 0

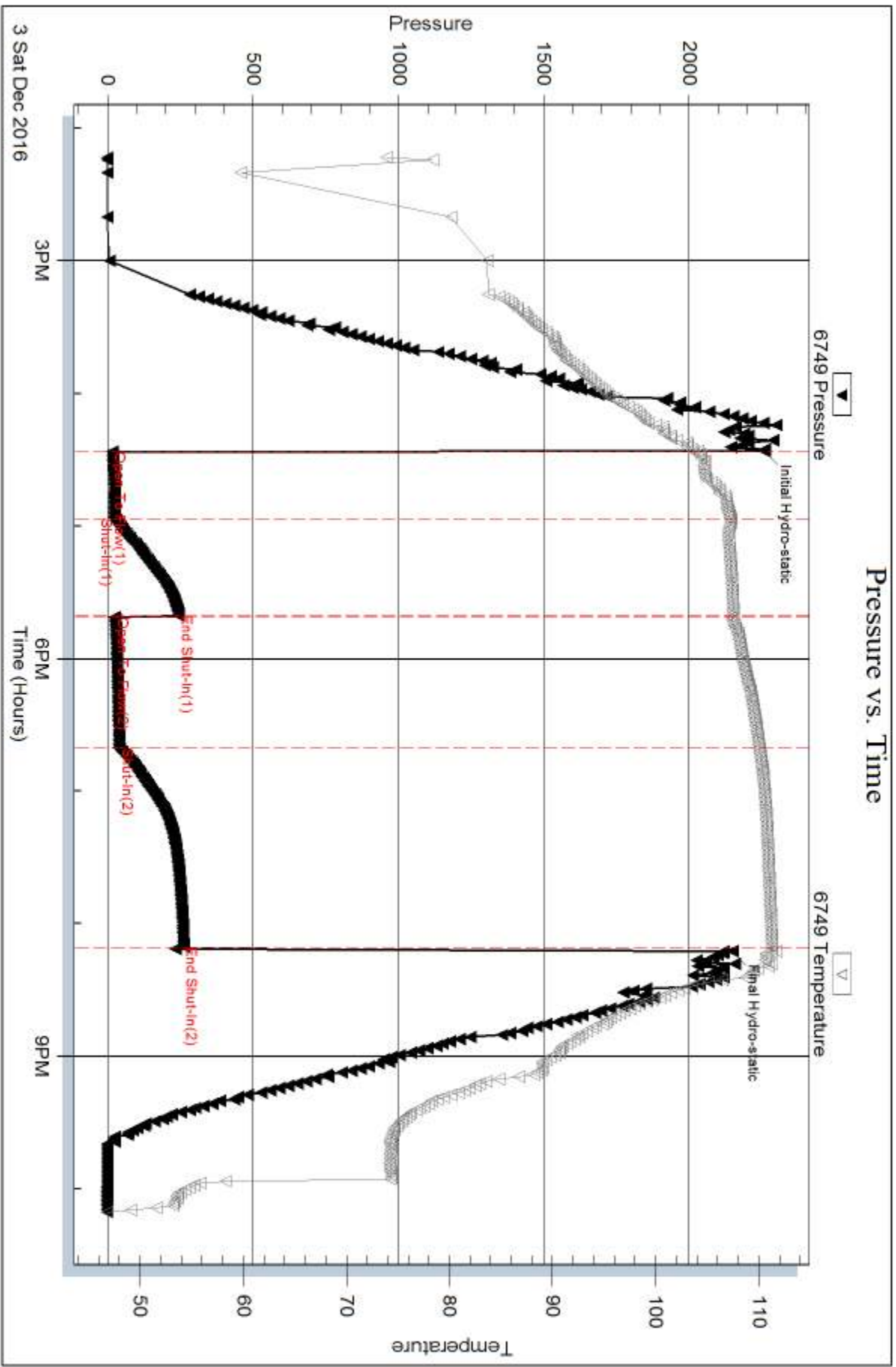
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API= 31 @ 60



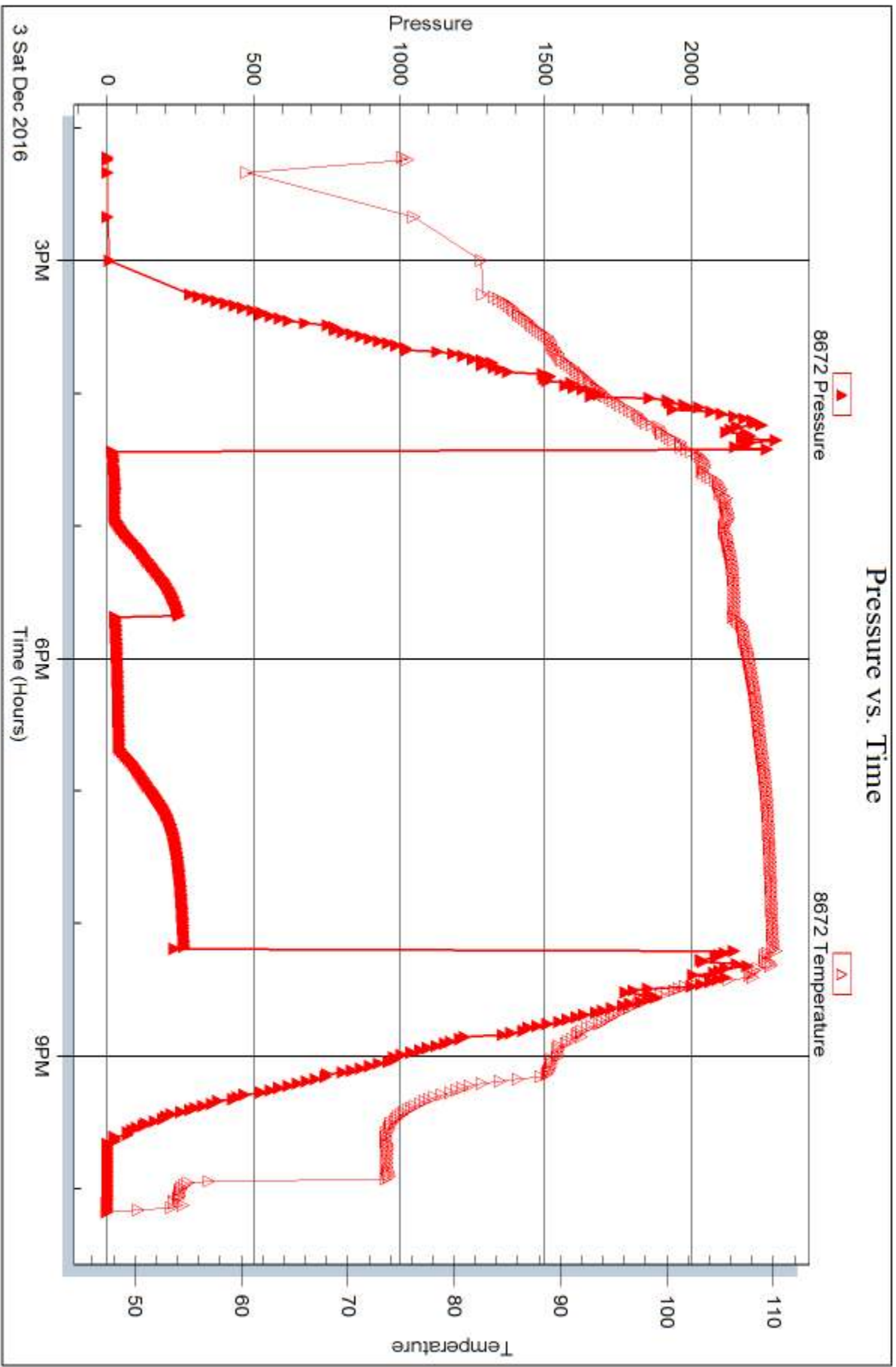
Serial #: 8672

Inside

Landmark Resources

Wesseler #3-28

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Landmark Resources**

1616 Voss Rd. STE 800
Houston TX 77057

ATTN: Terry McLeod

Wesseler #3-28

28-16s-34w Scott,KS

Start Date: 2016.12.04 @ 08:28:15

End Date: 2016.12.04 @ 14:27:45

Job Ticket #: 65684 DST #: 3

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

Printed: 2016.12.06 @ 16:26:04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources
 1616 Voss Rd. STE 800
 Houston TX 77057
 ATTN: Terry McLeod

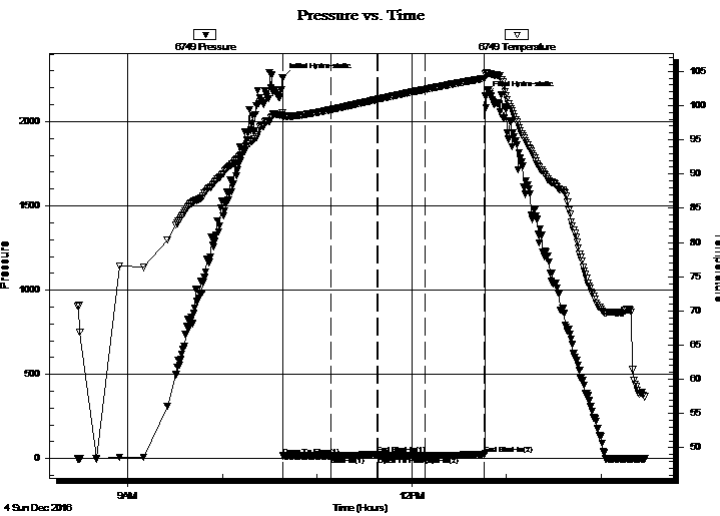
28-16s-34w Scott,KS
Wesseler #3-28
 Job Ticket: 65684 **DST#: 3**
 Test Start: 2016.12.04 @ 08:28:15

GENERAL INFORMATION:

Formation: **Lower Altamont**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:38:30
 Time Test Ended: 14:27:45
 Interval: **4514.00 ft (KB) To 4540.00 ft (KB) (TVD)**
 Total Depth: 4540.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 3138.00 ft (KB)
 3133.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6749 Outside
 Press@RunDepth: 16.03 psig @ 4515.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.12.04 End Date: 2016.12.04 Last Calib.: 2016.12.04
 Start Time: 08:28:15 End Time: 14:27:45 Time On Btm: 2016.12.04 @ 10:38:15
 Time Off Btm: 2016.12.04 @ 12:46:45

TEST COMMENT: IF: Built to weak surface blow and died in 5 min.
 IS: No return blow
 FF: Weak surface blow
 FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.30	98.99	Initial Hydro-static
1	15.56	98.31	Open To Flow (1)
31	16.11	99.40	Shut-In(1)
60	25.14	100.89	End Shut-In(1)
60	14.41	100.90	Open To Flow (2)
91	16.03	102.36	Shut-In(2)
128	25.34	103.97	End Shut-In(2)
129	2154.22	104.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud with oil spots 100% m	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources
1616 Voss Rd. STE 800
Houston TX 77057
ATTN: Terry McLeod

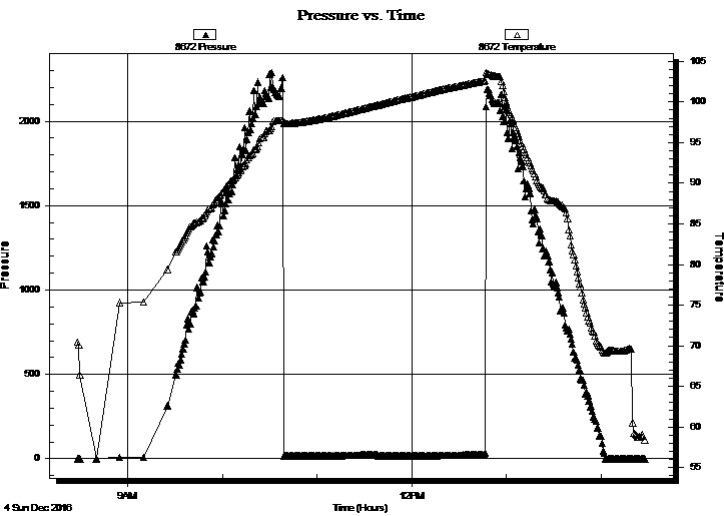
28-16s-34w Scott,KS
Wesseler #3-28
Job Ticket: 65684 **DST#: 3**
Test Start: 2016.12.04 @ 08:28:15

GENERAL INFORMATION:

Formation: Lower Altamont			
Deviated: No Whipstock: ft (KB)		Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 10:38:30		Tester: Mike Roberts	
Time Test Ended: 14:27:45		Unit No: 81	
Interval: 4514.00 ft (KB) To 4540.00 ft (KB) (TVD)		Reference Elevations: 3138.00 ft (KB)	
Total Depth: 4540.00 ft (KB) (TVD)		3133.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 5.00 ft	

Serial #: 8672	Inside				
Press@RunDepth: psig @ 4515.00 ft (KB)		Capacity: 8000.00 psig			
Start Date: 2016.12.04	End Date: 2016.12.04	Last Calib.: 2016.12.04			
Start Time: 08:28:15	End Time: 14:27:45	Time On Btm:			
		Time Off Btm:			

TEST COMMENT: IF: Built to weak surface blow and died in 5 min.
IS: No return blow
FF: Weak surface blow
FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud with oil spots 100% m	0.07

* 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

28-16s-34w Scott,KS

1616 Voss Rd. STE 800
Houston TX 77057

Wesseler #3-28

Job Ticket: 65684

DST#: 3

ATTN: Terry McLeod

Test Start: 2016.12.04 @ 08:28:15

Tool Information

Drill Pipe:	Length: 4522.00 ft	Diameter: 3.80 inches	Volume: 63.43 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 20000.00 lb
			<u>Total Volume: 63.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4514.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4496.00	
Shut In Tool	5.00			4501.00	
Hydraulic tool	5.00			4506.00	
Safety Joint	3.00			4509.00	
Packer	5.00			4514.00	19.00 Bottom Of Top Packer
Packer - Shale	0.00			4514.00	
Stubb	1.00			4515.00	
Recorder	0.00	8672	Inside	4515.00	
Recorder	0.00	6749	Outside	4515.00	
Perforations	20.00			4535.00	
Bullnose	5.00			4540.00	26.00 Anchor Tool

Total Tool Length: 45.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources

28-16s-34w Scott,KS

1616 Voss Rd. STE 800
Houston TX 77057

Wesseler #3-28

Job Ticket: 65684

DST#: 3

ATTN: Terry McLeod

Test Start: 2016.12.04 @ 08:28:15

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: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	mud w ith oil spots 100%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbf

Num Fluid Samples: 0

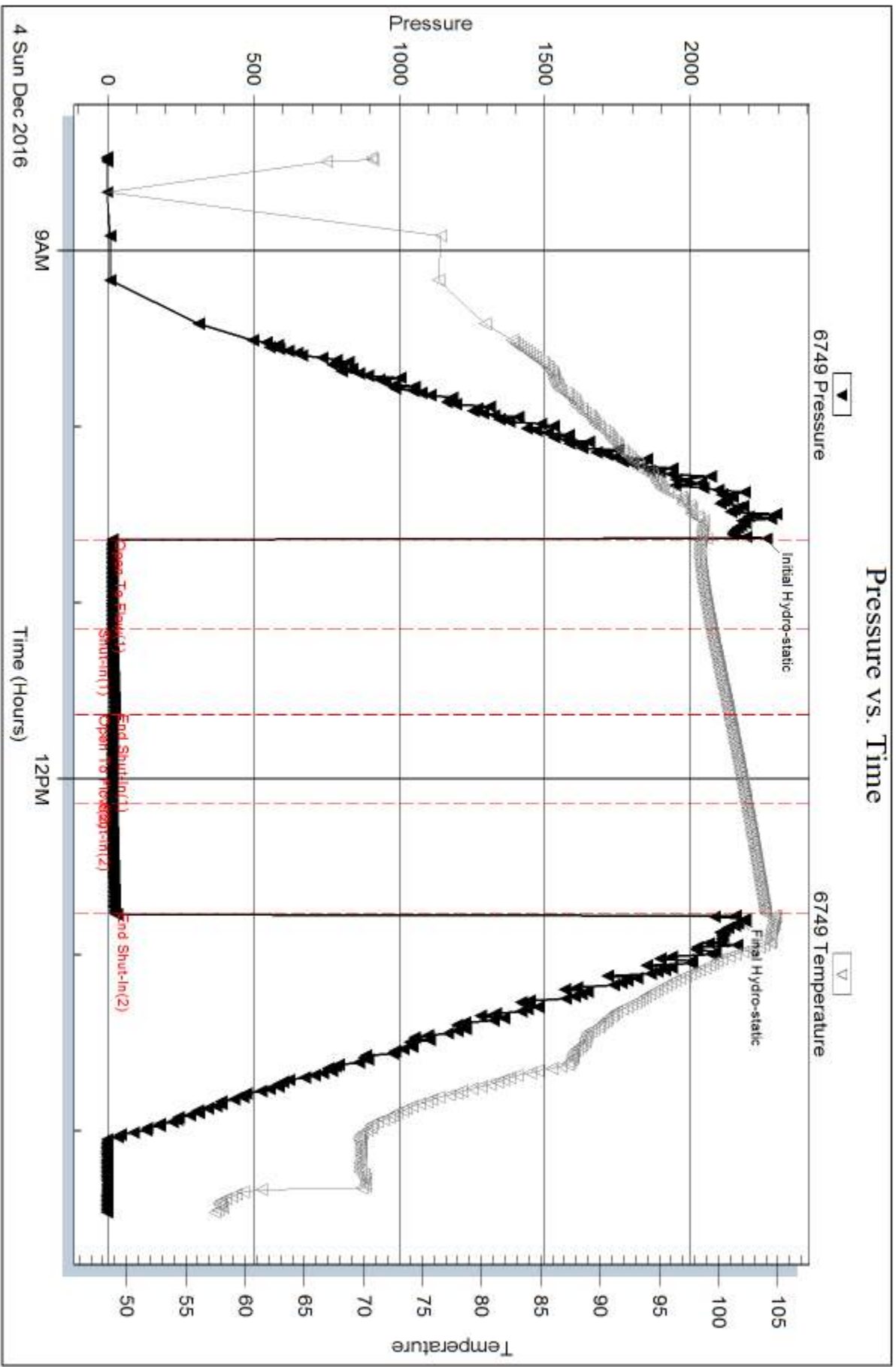
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



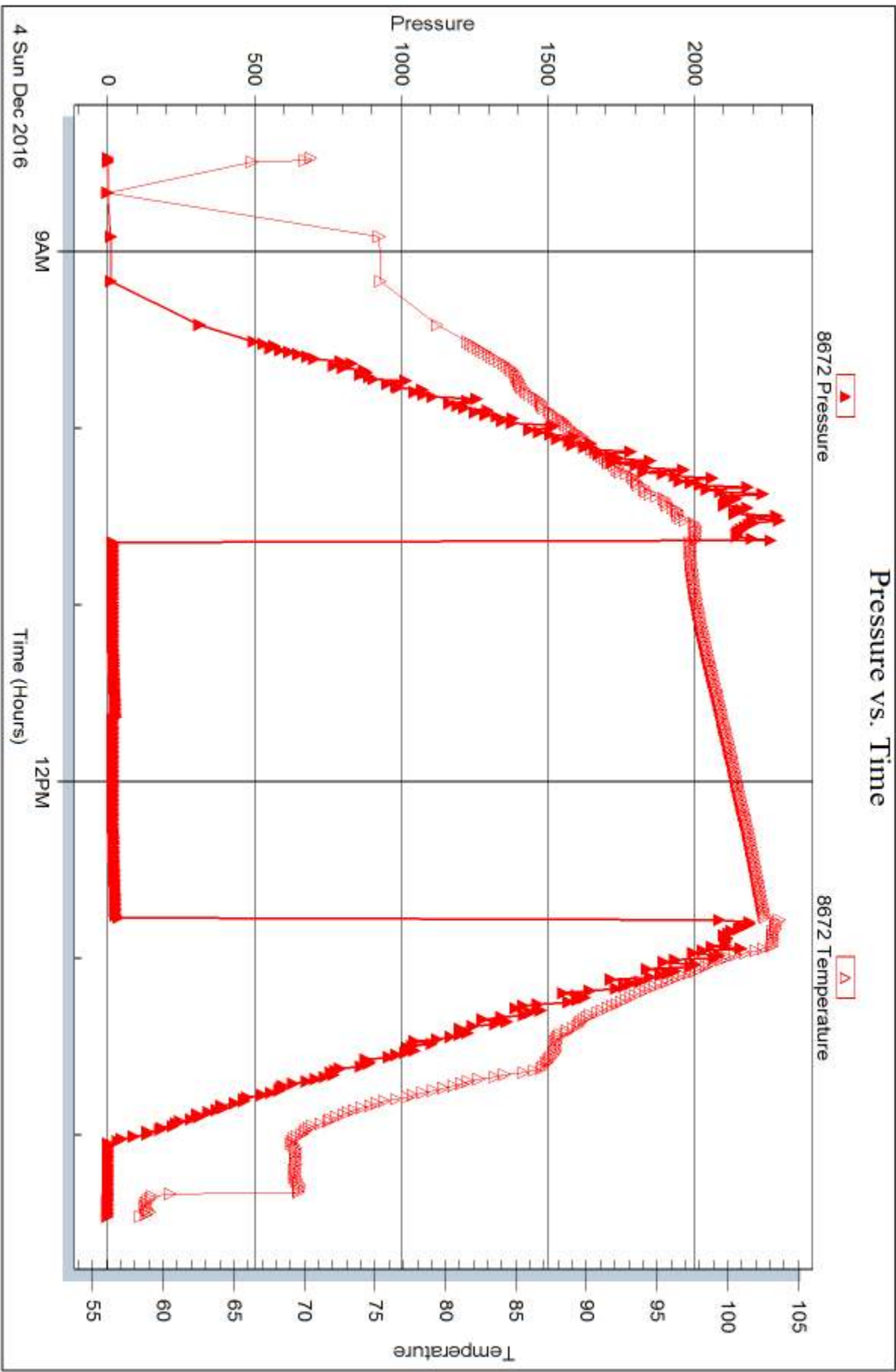
Serial #: 8672

Inside

Landmark Resources

Wesseler #3-28

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65684

Printed: 2016.12.06 @ 16:26:05



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources**

1616 Voss Rd. STE 800
Houston TX 77057

ATTN: Terry McLeod

Wesseler #3-28

28-16s-34w Scott,KS

Start Date: 2016.12.05 @ 01:16:15

End Date: 2016.12.05 @ 08:22:00

Job Ticket #: 65685 DST #: 4

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

Printed: 2016.12.06 @ 16:25:23



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources
 1616 Voss Rd. STE 800
 Houston TX 77057
 ATTN: Terry McLeod

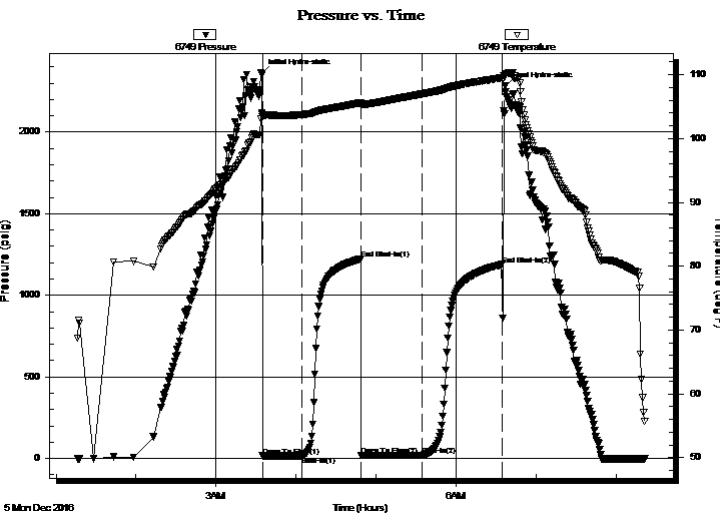
28-16s-34w Scott,KS
Wesseler #3-28
 Job Ticket: 65685 **DST#: 4**
 Test Start: 2016.12.05 @ 01:16:15

GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:34:45
 Time Test Ended: 08:22:00
 Interval: **4601.00 ft (KB) To 4610.00 ft (KB) (TVD)**
 Total Depth: 4610.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 3138.00 ft (KB)
 3133.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6749 Outside
 Press@RunDepth: 18.79 psig @ 4602.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.12.05 End Date: 2016.12.05 Last Calib.: 2016.12.05
 Start Time: 01:16:15 End Time: 08:22:00 Time On Btm: 2016.12.05 @ 03:34:30
 Time Off Btm: 2016.12.05 @ 06:36:45

TEST COMMENT: IF:Built to 1/4" blow
 IS:No return blow
 FF:Built to 1/4" blow
 FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2357.23	103.95	Initial Hydro-static
1	15.82	103.45	Open To Flow (1)
30	16.92	103.74	Shut-In(1)
75	1223.64	105.59	End Shut-In(1)
75	17.86	105.22	Open To Flow (2)
120	18.79	106.97	Shut-In(2)
180	1188.90	109.50	End Shut-In(2)
183	2281.43	109.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100%m	0.14

* 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

28-16s-34w Scott,KS

1616 Voss Rd. STE 800
Houston TX 77057

Wesseler #3-28

Job Ticket: 65685

DST#: 4

ATTN: Terry McLeod

Test Start: 2016.12.05 @ 01:16:15

Tool Information

Drill Pipe:	Length: 4593.00 ft	Diameter: 3.80 inches	Volume: 64.43 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 64.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4601.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	28.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4583.00	
Shut In Tool	5.00			4588.00	
Hydraulic tool	5.00			4593.00	
Safety Joint	3.00			4596.00	
Packer	5.00			4601.00	19.00 Bottom Of Top Packer
Packer - Shale	0.00			4601.00	
Stubb	1.00			4602.00	
Recorder	0.00	8672	Inside	4602.00	
Recorder	0.00	6749	Outside	4602.00	
Perforations	3.00			4605.00	
Bullnose	5.00			4610.00	9.00 Anchor Tool

Total Tool Length: 28.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources

28-16s-34w Scott,KS

1616 Voss Rd. STE 800
Houston TX 77057

Wesseler #3-28

Job Ticket: 65685

DST#: 4

ATTN: Terry McLeod

Test Start: 2016.12.05 @ 01:16:15

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100%m	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

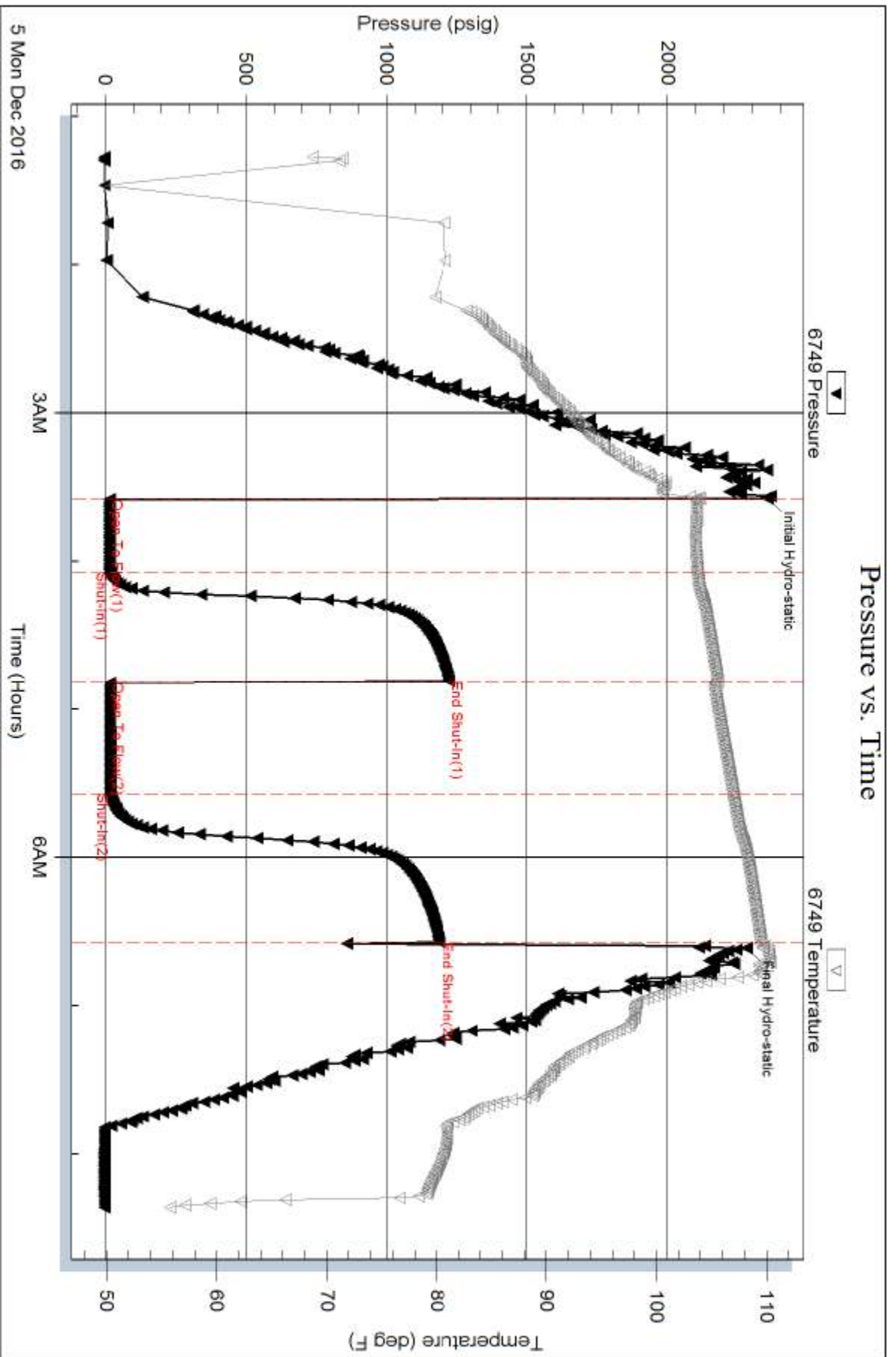
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



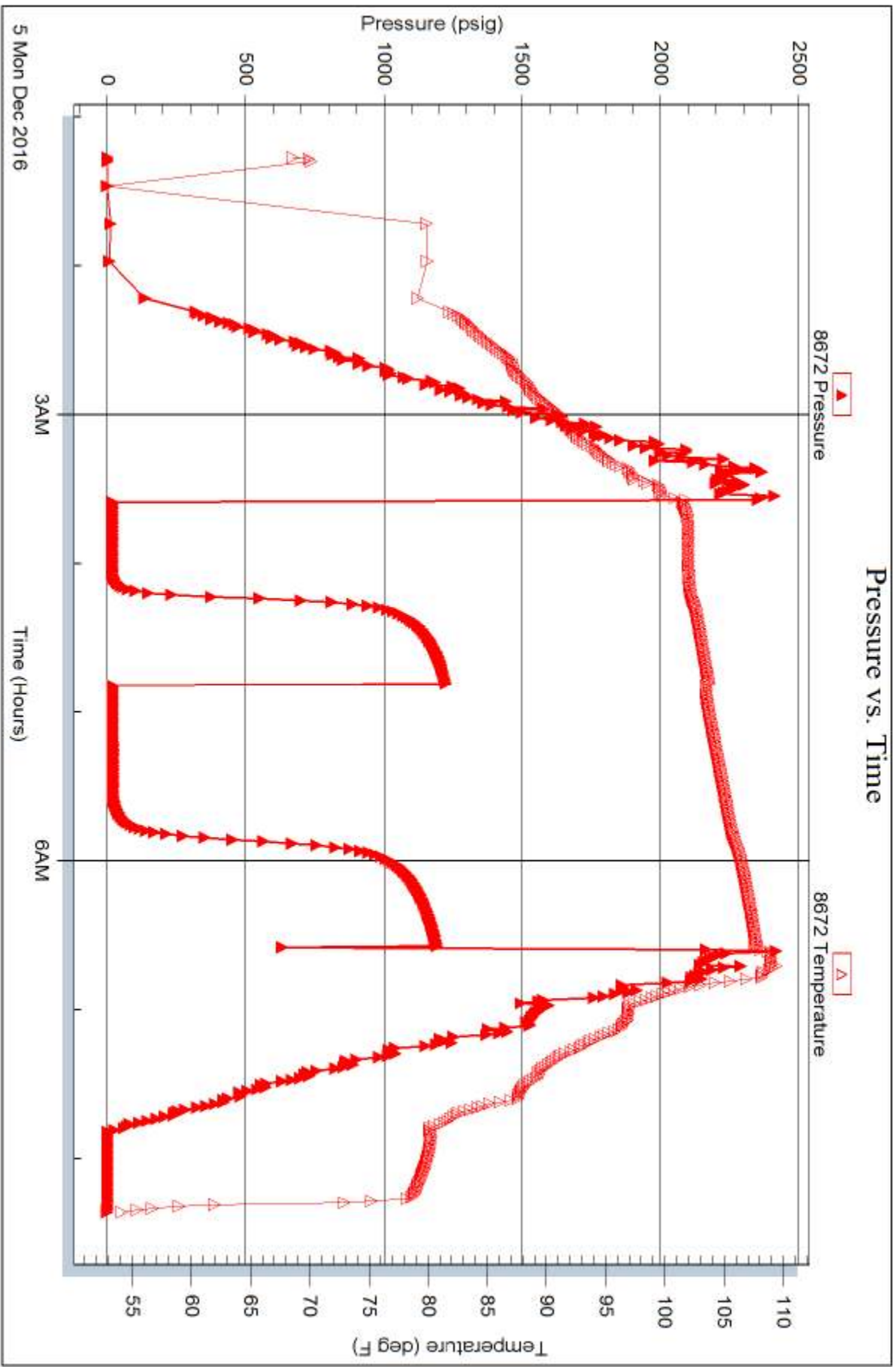
Serial #: 8672

Inside

Landmark Resources

Wesseler #3-28

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 65685

Printed: 2016.12.06 @ 16:25:24



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65682**

Well Name & No. ~~Landmark~~ Wesseler 3-28 Test No. 1 Date 12-2-16
 Company Landmark Resources Elevation 3138 KB 3133 GL
 Address 1416 S. Voss Rd STE 800 Houston TX 77057
 Co. Rep / Geo. Terry McLeod Rig LD
 Location: Sec. 28 Twp. 16 Rge. 34 Co. Scott State KS

Interval Tested 4259-4290 Zone Tested I
 Anchor Length 31 Drill Pipe Run 4246 Mud Wt. 8.8
 Top Packer Depth 4254 Drill Collars Run Ø Vis 59
 Bottom Packer Depth 4259 Wt. Pipe Run Ø WL 7.2
 Total Depth 4290 Chlorides 3300 ppm System LCM 2
 Blow Description IF: Boil to 1/4" Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

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	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 103 Gravity — API RW —@ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2089</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00/-</u>	T-On Location <u>01:40</u>
(B) First Initial Flow <u>13</u>	<input type="checkbox"/> Jars	T-Started <u>04:14</u>
(C) First Final Flow <u>14</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00/-</u>	T-Open <u>06:35</u>
(D) Initial Shut-In <u>135</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>09:05</u>
(E) Second Initial Flow <u>13</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>10:40</u>
(F) Second Final Flow <u>14</u>	<input checked="" type="checkbox"/> Mileage <u>50 RT = \$37.50/-</u>	Comments
(G) Final Shut-In <u>133</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2078</u>	<input type="checkbox"/> Straddle	
	<input checked="" type="checkbox"/> Shale Packer <u>\$250.00/-</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	Total <u>1512.50</u>
	Sub Total <u>\$1512.97</u>	MP/DST Disc't

Approved By _____ Our Representative Mike Roberts

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. **65683**

Well Name & No. Wesseler 3-28 Test No. 2 Date 12-3-16
 Company Landmark Resources Elevation 3138 KB 3133 GL
 Address 1616 S. Voss Rd STE 800 Houston TX 77057
 Co. Rep / Geo. Terry McLeod Rig LD
 Location: Sec. 28 Twp. 16 Rge. 34 Co. Scott State KS

Interval Tested 4472-4503 Zone Tested Marmaton
 Anchor Length 31 Drill Pipe Run 4463 Mud Wt. 9.0
 Top Packer Depth 4467 Drill Collars Run Ø Vis 52
 Bottom Packer Depth 4472 Wt. Pipe Run Ø WL 8.0
 Total Depth 4503 Chlorides 3000 ppm System LCM 5
 Blow Description IFI Built to 2" Blow
IS: No Return Blow
FF Built to 5" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>900</u>	<u>10</u>	<u>90</u>		
<u>62</u>	<u>900</u>	<u>5</u>	<u>65</u>	<u>30</u>	
<u>Ø</u>	<u>372' GIP</u>	<u>100</u>			

Rec Total 72 BHT 111 Gravity 31 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2258</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00/-</u>	T-On Location <u>14:00</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars	T-Started <u>14:13</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00/-</u>	T-Open <u>16:26</u>
(D) Initial Shut-In <u>244</u>	<input type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>20:11</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>22:11</u>
(F) Second Final Flow <u>39</u>	<input checked="" type="checkbox"/> Mileage <u>50 RT = \$37.50/-</u>	Comments
(G) Final Shut-In <u>261</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2148</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>\$250.00/-</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>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1512.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>\$1512.50/-</u>	

Approved By Lyn A. McKay Our Representative Mike Roberts

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65684**

Well Name & No. Wesseter 3-28 Test No. 3 Date 12-4-16
 Company Landmark Resources Elevation 3138 KB 3133 GL
 Address 1616 S. Voss Rd STE 800 Houston TX 77057
 Co. Rep / Geo. Terry McLeod Rig LD
 Location: Sec. 28 Twp. 16 Rge. 34 Co. SCOTT State KS

Interval Tested 4514-4540 Zone Tested Lower Altamont
 Anchor Length 26 Drill Pipe Run 4522 Mud Wt. 9.0
 Top Packer Depth 4509 Drill Collars Run Ø Vis 52
 Bottom Packer Depth 4514 Wt. Pipe Run Ø WL 8.0
 Total Depth 4540 Chlorides 3000 ppm System LCM 5
 Blow Description IF: Weak Surface Blow died in 5 MIN
IS: No Return Blow
FF: Weak Surface Blow
FS: No Return Blow

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

Rec Total 5 BHT 102 Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 2258 Test 1150 T-On Location 07:50
 (B) First Initial Flow 15 Jars — T-Started 08:28
 (C) First Final Flow 16 Safety Joint 75 T-Open 10:40
 (D) Initial Shut-In 25 Circ Sub — T-Pulled 12:40
 (E) Second Initial Flow ~~14~~ Hourly Standby — T-Out 14:27
 (F) Second Final Flow 16 Mileage 50 RT 37.50 Comments —
 (G) Final Shut-In 25 Sampler —
 (H) Final Hydrostatic 2154 Straddle — Ruined Shale Packer —
 Shale Packer 250 Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1512.50
 Accessibility — MP/DST Disc't —
 Sub Total 1512.50

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Approved By Terry McLeod Our Representative Mike Roberts

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. **65685**

Well Name & No: Wesseler 3-28 Test No. 4 Date 12-5-16
 Company Landmark Resources Elevation 3138 KB 3133 GL
 Address 1616 S. Voss Rd STE 800 Houston TX 77057
 Co. Rep / Geo. Terry McLeod Rig LD
 Location: Sec. 28 Twp. 16 Rge. 34 Co. Scott State KS

Interval Tested 4601-4610 Zone Tested Ft. Scott
 Anchor Length 9 Drill Pipe Run 4593 Mud Wt. 9.1
 Top Packer Depth 4596 Drill Collars Run 0 Vis 58
 Bottom Packer Depth 4601 Wt. Pipe Run 0 WL 9.2
 Total Depth 4610 Chlorides 4400 ppm System LCM 6

Blow Description IF: Built to 1/4" Blow
FS: No Return Blow
FF: Built to 1/4" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>			<u>100</u>	

Rec Total 10 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2357</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>00:40</u>
(B) First Initial Flow <u>15</u>	<input type="checkbox"/> Jars	T-Started <u>01:16</u>
(C) First Final Flow <u>16</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u> 105	T-Open <u>03:34</u>
(D) Initial Shut-In <u>1223</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>06:34</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>08:22</u>
(F) Second Final Flow <u>18</u>	<input checked="" type="checkbox"/> Mileage <u>50 RT X2</u> 37.50	Comments <u>loaded tools</u>
(G) Final Shut-In <u>1188</u>	<input type="checkbox"/> Sampler	<u>00400 12-6-</u>
(H) Final Hydrostatic <u>2281</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<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>1550</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1550</u>	

Approved By Terry A. McLeod Our Representative Mike Roberts

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.



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

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

INVOICE

Invoice Number: 153356

Invoice Date: Nov 26, 2016

Page: 1

Federal Tax I.D.#: 81-2169190

P.D.
71730
50813
\$4843.47

RECEIVED

DEC 1 4 ENT'D

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

Customer ID	Field Ticket #	Payment Terms	
Land	68224	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	Nov 26, 2016	12/26/16

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Wessler 3-28		
190.00	CEMENT MATERIALS	Class A Common	17.90	3,401.00
536.00	CEMENT MATERIALS	Calcium Chloride	1.10	589.60
1.00	CEMENT SERVICE	Pump, Casing Cement 0-500ft	1,512.25	1,512.25
200.00	CEMENT SERVICE	PHDL	2.48	496.00
360.00	CEMENT SERVICE	DRYG	2.75	990.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
40.00	CEMENT SERVICE	Heavy Vehicle Mileage	7.70	308.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	1,516.43	-1,516.43
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	1,323.25	-1,323.25
1.00	E-FORSLUND.MERRELL	SERVICE SUPERVISOR		
1.00	E-RYAN.KEVIN	EQUIPMENT OPERATOR		
1.00	E-BROWN.CORY	MECHANIC		

ALL PRICES ARE NET, PAYABLE
30 DAYS FOLLOWING DATE OF
INVOICE. ONLY IF PAID ON OR
BEFORE

Dec 26, 2016

1 1/2% CHARGED
THEREAFTER.

Subtotal	4,633.17
Sales Tax	210.30
Total Invoice Amount	4,843.47
Payment/Credit Applied	
TOTAL	4,843.47



ALLIED OFS, LLC

Federal Tax I.D. #81-2169190

68224

REMIT TO: Allied OFS, LLC
P.O. Box 205803
Dallas, TX 75320-5803

SERVICE POINT:

Oakley

DATE <u>11-26-16</u>	SEC. <u>28</u>	TWP. <u>16s</u>	RANGE <u>34w</u>	CALLED OUT	ON LOCATION <u>5:00 PM</u>	JOB START <u>7:00 PM</u>	JOB FINISH <u>7:30 PM</u>
<u>Wesseler</u> LEASE	WELL # <u>3-28</u>		LOCATION <u>Pence 1/2s winto</u>		COUNTY <u>Scott</u>	STATE <u>Ks</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR LO
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 293'
 CASING SIZE 8 5/8 DEPTH 290.22'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 12.5.3 BBL

OWNER same
 CEMENT
 AMOUNT ORDERED 190 sks com 3% cc
 COMMON 190 sks @ 12.90 3401.00
 POZMIX @ _____
 GEL @ _____
 CHLORIDE 5.36 # @ 1.10 589.60
 ASC @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____

EQUIPMENT
 PUMP TRUCK CEMENTER Andrew Fortlund
#526-281 HELPER Kevin Ryan
 BULK TRUCK
 # 891 DRIVER Cory Brown
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Circulated 5 BBL TO PIT

Thank you

CHARGE TO: Landmark Resources
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 3990.60
 DISCOUNT 38% 1516.43

SERVICE

HANDLING 200 skts @ 2.48 496.00
 MILEAGE 2.25 to mile 9 ton 990.00
 DEPTH OF JOB 290.22'
 PUMP TRUCK CHARGE _____ 1512.75
 EXTRA FOOTAGE @ _____
 HV MILEAGE 40 miles @ 7.70 308.00
 LV MILEAGE 40 miles @ 4.40 176.00
 @ _____
 @ _____

TOTAL 3482.25
 DISCOUNT _____ % 1323.25

PLUG & FLOAT EQUIPMENT

@ _____
 @ _____
 @ _____
 @ _____
 @ _____
 TOTAL _____
 DISCOUNT _____ % _____

To: Allied OFS, 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 Richard Wilson
 SIGNATURE RW

SALES TAX (If Any) _____
 TOTAL CHARGES 7,472.85
 DISCOUNT 2,839.68 (38%) IF PAID IN 30 DAYS
 NET TOTAL 4,633.16 IF PAID IN 30 DAYS

Bid

Cost Estimate

8 5/8 " Surface

Operations	Qty	UoM	Unit Price	Total	Net Price
PUMP,CASING CEMENT 0-500 FT	1.00	min. 4 hr	\$1,512.25	\$1,512.25	\$937.60
				Subtotal:	\$937.60
Equipment Sales					
Wooden Plug	1.00	each	\$110.00	\$110.00	\$68.20
				Subtotal:	\$68.20
Products					
CLASS A COMMON	175	sack	\$17.90	\$3,132.50	\$1,942.15
CALCIUM CHLORIDE, PELLETS OR FLAKE	494	pound	\$1.10	\$543.40	\$336.91
				Subtotal:	\$2,279.06
Transport					
Products handling service charge	185.00	per cu. Ft.	\$2.48	\$458.80	\$284.46
Drayage for Products	339.00	ton-mile	\$2.75	\$932.25	\$578.00
Light Vehicle Mileage	40.00	per mile	\$4.40	\$176.00	\$109.12
Heavy Vehicle Mileage	40.00	per mile	\$7.70	\$308.00	\$190.96
				Subtotal:	\$1,162.53

TOTAL INVOICE EXCLUDING ADDITIONAL ITEMS				\$7,173.20	\$4,447.38
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Additional Items	Qty	UoM	Unit Price	Total	Net Price
Additional hours, in excess of set hours	1.00	per hour	\$ 440.00	\$ 440.00	\$ 220.00
				Subtotal:	\$ 220.00

The data contained in this proposal is based on the best information available at the time of writing and is subject to further analysis and testing. The prices contained in this proposal are estimates and may vary depending on the work actually performed. Pricing does not include federal, state and local taxes or royalties. This quotation is based on being awarded the work on a first call basis and may be subject to change for second or third call. This quotation is valid for thirty (30) days after listed proposal date, and may be subject to change if the work is performed more than thirty (30) days after the listed proposal date.

TERMS and CONDITIONS

Allied OFS' performance of services and sale of materials is expressly conditioned upon the applicability of the Terms and Conditions listed on the service ticket provided at the job site. The Terms and Conditions include, among other things, an indemnity in favor of Allied OFS from Customer for damage to the well bore, reservoir damage, loss of the hole, blowouts and loss of control of the well, even if caused by the negligence or other fault of Allied OFS. The Terms and Conditions also limit the warranties provided by Allied OFS and the remedies to which Customer may be entitled in the event of a breach of warranty by Allied OFS. For these reasons, we strongly recommend that you carefully review a copy of the Terms and Conditions.

By requesting that Allied OFS perform the services described herein, Customer acknowledges that such Terms and Conditions are applicable to the services. Further, by requesting the services, Customer warrants that its representative on the well location or other service site will be fully authorized to acknowledge such Terms and Conditions by executing a service ticket or other document presented by Allied OFS containing such Terms and Conditions.

In the event that Customer and Allied OFS have executed a Master Services Agreement covering the work to be performed, such Master Services Agreement shall govern in place of the Terms and Conditions.



INVOICE

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

Invoice Number: 153457

Invoice Date: Dec 6, 2016

Page: 1

Voice: (832) 482-3742

Fax: (832) 482-3738

71890

RECEIVED

Federal Tax I.D.#: 81-2169190

DEC 29 ENT'D

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

Customer ID	Field Ticket #	Payment Terms	
Land	68193	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	Dec 6, 2016	1/5/17

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Wessler 3-28		
290.00	CEMENT MATERIALS	60-40-4% gel	18.92	5,486.80
73.00	CEMENT MATERIALS	FlowSeal	2.97	216.81
1.00	CEMENT SERVICE	Pump Tubing/SQZ Cement 2001-300ft	2,483.59	2,483.59
311.50	CEMENT SERVICE	PHDL	2.48	772.52
520.00	CEMENT SERVICE	DRYG	2.75	1,430.00
40.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	176.00
40.00	CEMENT SERVICE	Heavy Vehicle Mileage	7.70	308.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	2,167.37	-2,167.37
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	1,964.64	-1,964.64
1.00	E-RYAN.ALAN	SERVICE SUPERVISOR		
1.00	E-MCGHGHY.WAYNE	EQUIPMENT OPERATOR		
1.00	E-BROWN.CORY	MECHANIC		

*Pd. # 50880
11,900.54*

<p>ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE</p> <p>Jan 5, 2017</p> <p>1 1/2% CHARGED THEREAFTER.</p>	Subtotal	6,741.71
	Sales Tax	300.58
	Total Invoice Amount	7,042.29
	Payment/Credit Applied	
	TOTAL	7,042.29



ALLIED OFS, LLC

Federal Tax I.D. #81-2169190

24940
999
68193 16.63

REMIT TO: Allied Ofs, LLC
P.O. Box 205803
Dallas, TX 75320-5803

SERVICE POINT: Redblay/K

DATE <u>12/16/16</u>	SEC. <u>28</u>	TWP. <u>16</u>	RANGE <u>34</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Wegeler</u>	WELL # <u>3-28</u>	LOCATION <u>Rence 1 1/2 SW: rto</u>	COUNTY <u>Scott</u>	STATE <u>Ky</u>			
OLD OR NEW (Circle one)							

CONTRACTOR 10

TYPE OF JOB PTA

HOLE SIZE 7 1/8 T.D.

CASING SIZE 8 5/8 DEPTH 200

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER Gene

CEMENT

AMOUNT ORDERED 290 60/40 400 gal
114 FLO

60/40 400 gal
COMMON 290 9K @ 18 25 5486 80

POZMIX @

GEL @

CHLORIDE @

ASC @

Flo Seal 73 @ 7 97 216 81

EQUIPMENT

PUMP TRUCK CEMENTER Ala Ryan

431 HELPER Wayne Maribghy

BULK TRUCK

373 DRIVER Cory Brown

BULK TRUCK

DRIVER

TOTAL 5703.61

DISCOUNT 38% 2167.37

REMARKS:

50 9K @ 24.70'

80 9K @ 15.00'

50 9K @ 22.5'

40 9K @ 32.0'

20 9K @ 60'

30 9K R.H.

SERVICE

HANDLING 311 1/2 CF @ 2 1/2 772.50

MILEAGE 2 1/2 700/mile 13.700 1430.00

DEPTH OF JOB

PUMP TRUCK CHARGE 2483.59

EXTRA FOOTAGE @

HV MILEAGE 40 @ 7 25 308

LV MILEAGE 40 @ 4 40 176

TOTAL 5170.11

DISCOUNT 38% 1964.64

CHARGE TO Landmark Resources

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

DISCOUNT %

To: Allied Ofs, 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 _____

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES 10,873.72

DISCOUNT 4,132.01 (38%) IF PAID IN 30 DAYS

NET TOTAL 6,741.70 IF PAID IN 30 DAYS