



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources, Inc.**

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

ATTN: Wes Hansen

Gerstberger #1-19

S19-17s-36w Wichita,KS

Start Date: 2014.04.25 @ 11:28:00

End Date: 2014.04.25 @ 19:15:24

Job Ticket #: 57676 DST #: 1

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

Printed: 2014.05.01 @ 09:54:23

Landmark Resources, Inc.

S19-17s-36w Wichita,KS

Gerstberger #1-19

DST # 1

Marmaton

2014.04.25



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Landmark Resources, Inc.

S19-17s-36w Wichita,KS

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

Gerstberger #1-19

Job Ticket: 57676

DST#: 1

ATTN: Wes Hansen

Test Start: 2014.04.25 @ 11:28:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:30:48

Time Test Ended: 19:15:24

Test Type: Conventional Bottom Hole (Initial)

Tester: Chuck Smith

Unit No: 62

Interval: 4368.00 ft (KB) To 4440.00 ft (KB) (TVD)

Total Depth: 4440.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3291.00 ft (KB)

3281.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8357

Inside

Press@RunDepth: 35.75 psig @ 4370.00 ft (KB)

Start Date: 2014.04.25

End Date:

2014.04.25

Start Time: 11:28:05

End Time:

19:15:24

Capacity: 8000.00 psig

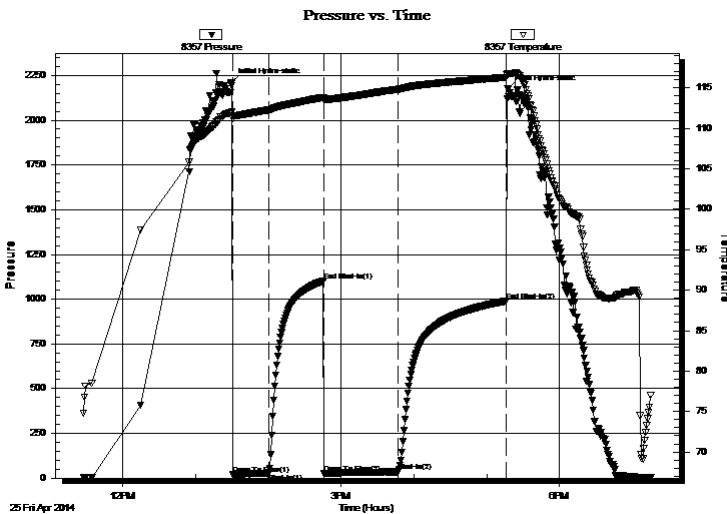
Last Calib.: 2014.04.25

Time On Btm: 2014.04.25 @ 13:29:36

Time Off Btm: 2014.04.25 @ 17:17:17

TEST COMMENT: 30- 1/2" Steady blow .
45- No return.
60- No blow .
90- No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2208.00	111.99	Initial Hydro-static
2	21.63	111.17	Open To Flow (1)
32	27.04	112.29	Shut-In(1)
76	1101.50	113.82	End Shut-In(1)
77	28.04	113.51	Open To Flow (2)
138	35.75	114.82	Shut-In(2)
227	989.83	116.31	End Shut-In(2)
228	2173.64	116.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: @ Degrees F = PPM N/A	0.00
31.00	M 100m	0.43

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources, Inc.

S19-17s-36w Wichita,KS

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

Gerstberger #1-19

Job Ticket: 57676

DST#: 1

ATTN: Wes Hansen

Test Start: 2014.04.25 @ 11:28:00

Tool Information

Drill Pipe:	Length: 4371.00 ft	Diameter: 3.80 inches	Volume: 61.31 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 61.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.50 ft			String Weight: Initial 77000.00 lb
Depth to Top Packer:	4368.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	99.50 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			4341.50	
Shut In Tool	5.00			4346.50	
Hydraulic tool	5.00			4351.50	
Jars	5.00			4356.50	
Safety Joint	2.50			4359.00	
Packer	5.00			4364.00	27.50 Bottom Of Top Packer
Packer	4.00			4368.00	
Stubb	1.00			4369.00	
Perforations	1.00			4370.00	
Recorder	0.00	8357	Inside	4370.00	
Recorder	0.00	8645	Outside	4370.00	
Perforations	3.00			4373.00	
Change Over Sub	1.00			4374.00	
Drill Pipe	62.00			4436.00	
Change Over Sub	1.00			4437.00	
Bullnose	3.00			4440.00	72.00 Bottom Packers & Anchor
Total Tool Length:	99.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources, Inc.

S19-17s-36w Wichita,KS

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

Gerstberger #1-19

Job Ticket: 57676

DST#: 1

ATTN: Wes Hansen

Test Start: 2014.04.25 @ 11:28:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4.80 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW: @ Degrees F = PPM N/A	0.000
31.00	M 100m	0.435

Total Length: 31.00 ft Total Volume: 0.435 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

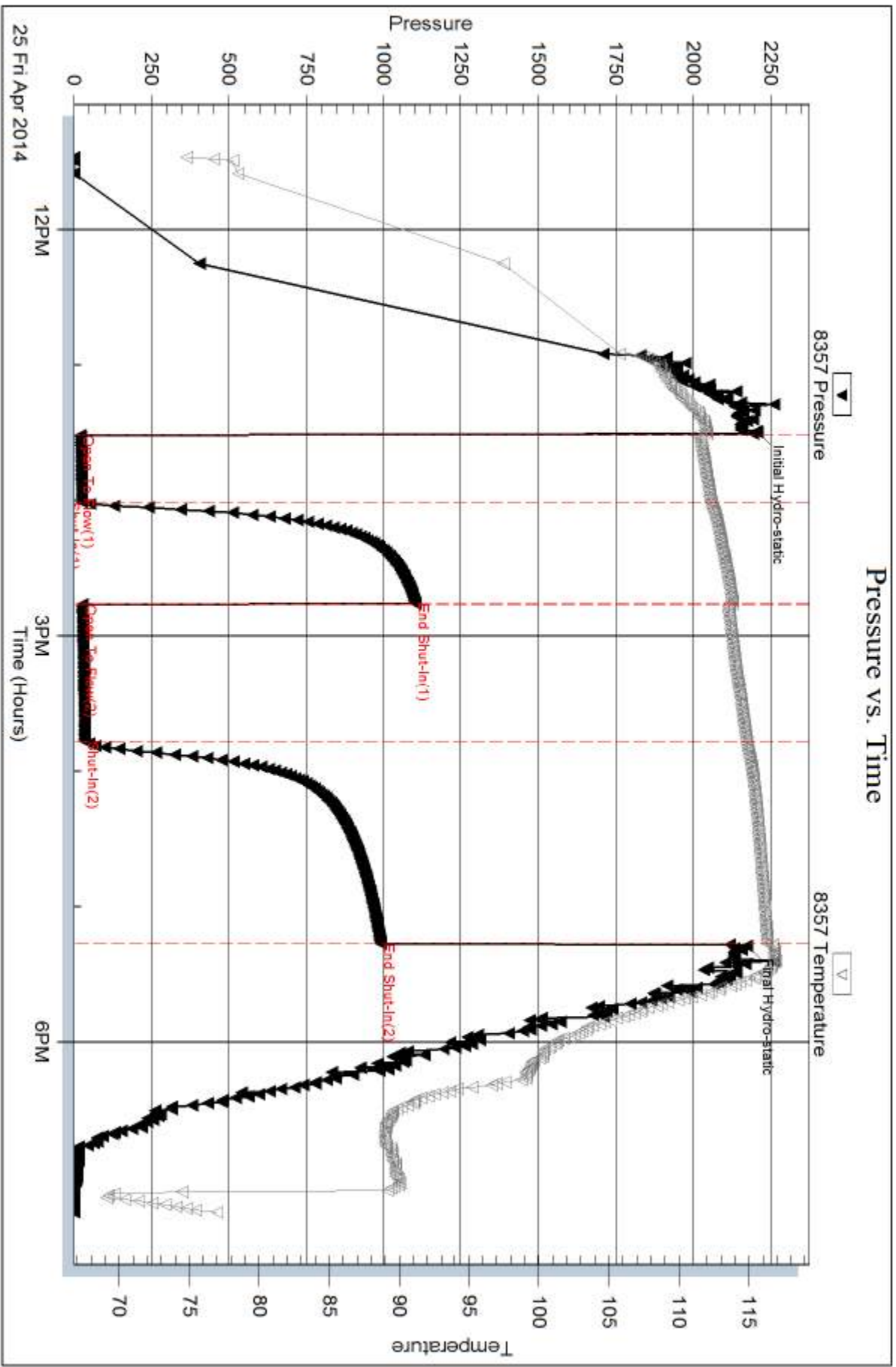
Serial #: 8357

Inside

Landmark Resources, Inc.

Gerstberger #1-19

DST Test Number: 1

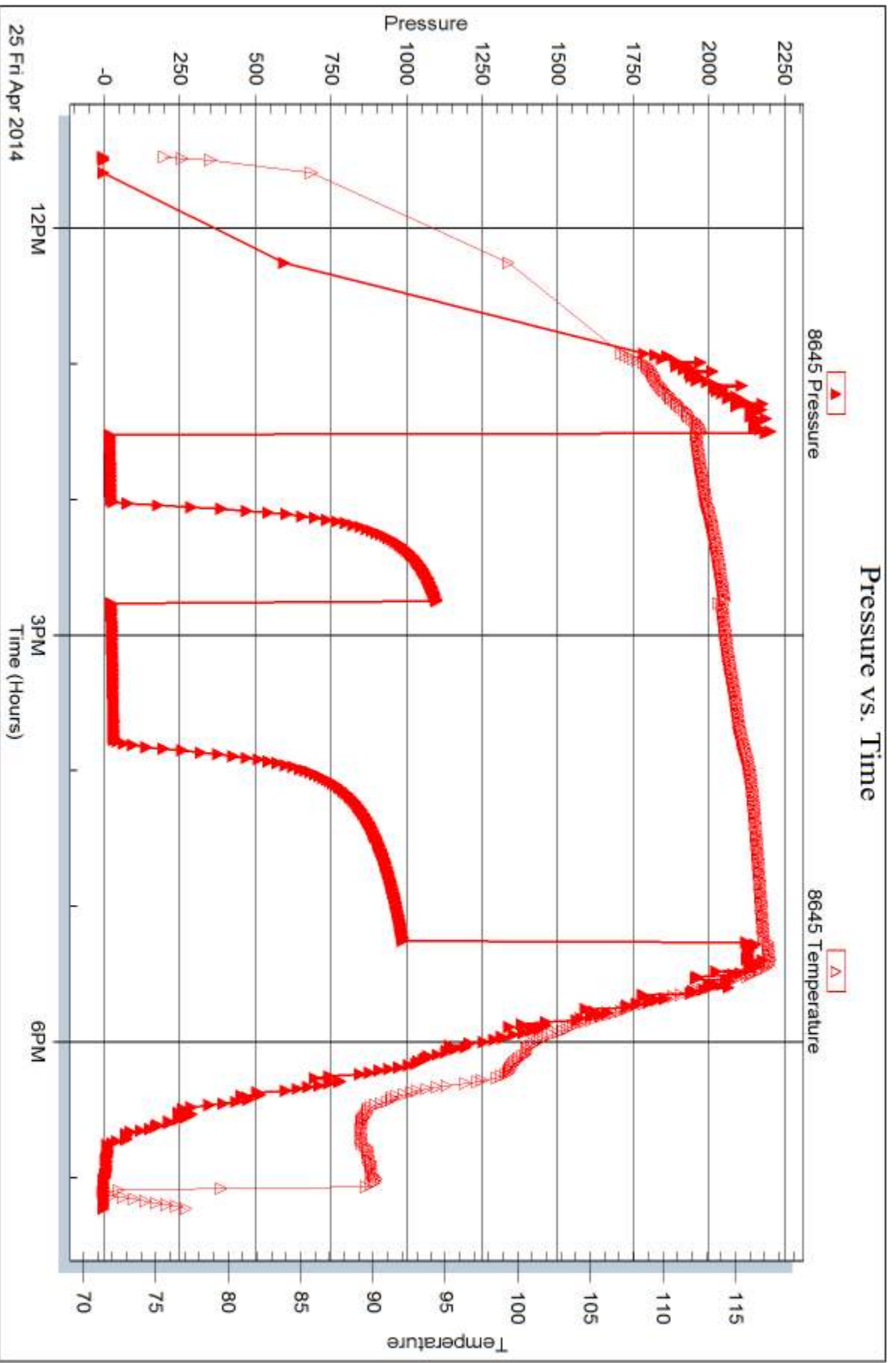


Serial #: 8645

Outside Landmark Resources, Inc.

Gerstberger #1-19

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 57676

Printed: 2014.05.01 @ 09:54:24



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources, Inc.**

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

ATTN: Wes Hansen

Gerstberger #1-19

S19-17s-36w Wichita,KS

Start Date: 2014.04.26 @ 06:40:00

End Date: 2014.04.26 @ 13:11:00

Job Ticket #: 57677 DST #: 2

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

Printed: 2014.05.01 @ 09:53:45

Landmark Resources, Inc.

S19-17s-36w Wichita,KS

Gerstberger #1-19

DST # 2

Altamont

2014.04.26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources, Inc.

S19-17s-36w Wichita,KS

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

Gerstberger #1-19

Job Ticket: 57677

DST#: 2

ATTN: Wes Hansen

Test Start: 2014.04.26 @ 06:40:00

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:35:42

Time Test Ended: 13:11:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Smith

Unit No: 62

Interval: 4436.00 ft (KB) To 4490.00 ft (KB) (TVD)

Reference Elevations: 3291.00 ft (KB)

Total Depth: 4490.00 ft (KB) (TVD)

3281.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8357

Inside

Press@RunDepth: 22.72 psig @ 4438.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.04.26

End Date:

2014.04.26

Last Calib.:

2014.04.26

Start Time: 06:40:05

End Time:

13:10:59

Time On Btm:

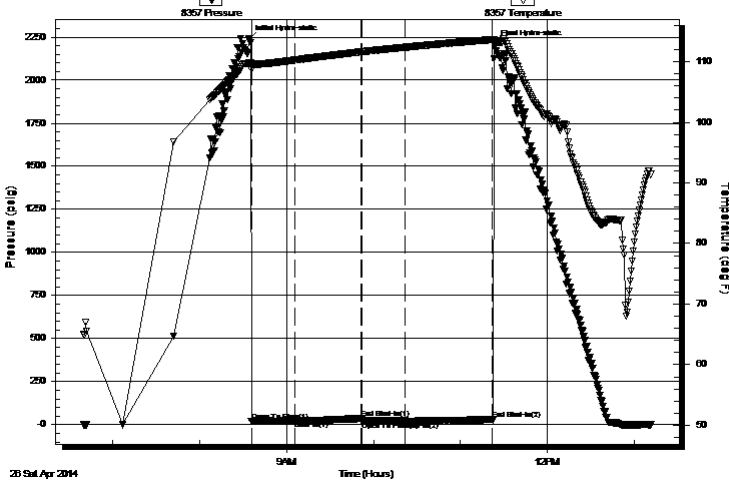
2014.04.26 @ 08:34:00

Time Off Btm:

2014.04.26 @ 11:23:24

TEST COMMENT: 30- 1/2" Blow receded to weak surface blow .
45- No return.
30- No return.
60- No blow .

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.70	109.74	Initial Hydro-static
2	22.07	108.73	Open To Flow (1)
32	22.88	110.25	Shut-In(1)
78	36.55	111.60	End Shut-In(1)
78	21.18	111.60	Open To Flow (2)
108	22.72	112.36	Shut-In(2)
168	30.90	113.63	End Shut-In(2)
170	2206.99	113.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100m	0.07

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.

S19-17s-36w Wichita,KS

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

Gerstberger #1-19

Job Ticket: 57677

DST#: 2

ATTN: Wes Hansen

Test Start: 2014.04.26 @ 06:40:00

Tool Information

Drill Pipe:	Length: 4435.00 ft	Diameter: 3.80 inches	Volume: 62.21 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 62.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.50 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4436.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	81.50 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			4409.50	
Shut In Tool	5.00			4414.50	
Hydraulic tool	5.00			4419.50	
Jars	5.00			4424.50	
Safety Joint	2.50			4427.00	
Packer	5.00			4432.00	27.50 Bottom Of Top Packer
Packer	4.00			4436.00	
Stubb	1.00			4437.00	
Perforations	1.00			4438.00	
Recorder	0.00	8357	Inside	4438.00	
Recorder	0.00	8645	Outside	4438.00	
Perforations	16.00			4454.00	
Change Over Sub	1.00			4455.00	
Drill Pipe	31.00			4486.00	
Change Over Sub	1.00			4487.00	
Bullnose	3.00			4490.00	54.00 Bottom Packers & Anchor
Total Tool Length:	81.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources, Inc.

S19-17s-36w Wichita,KS

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

Gerstberger #1-19

Job Ticket: 57677

DST#: 2

ATTN: Wes Hansen

Test Start: 2014.04.26 @ 06:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M 100m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

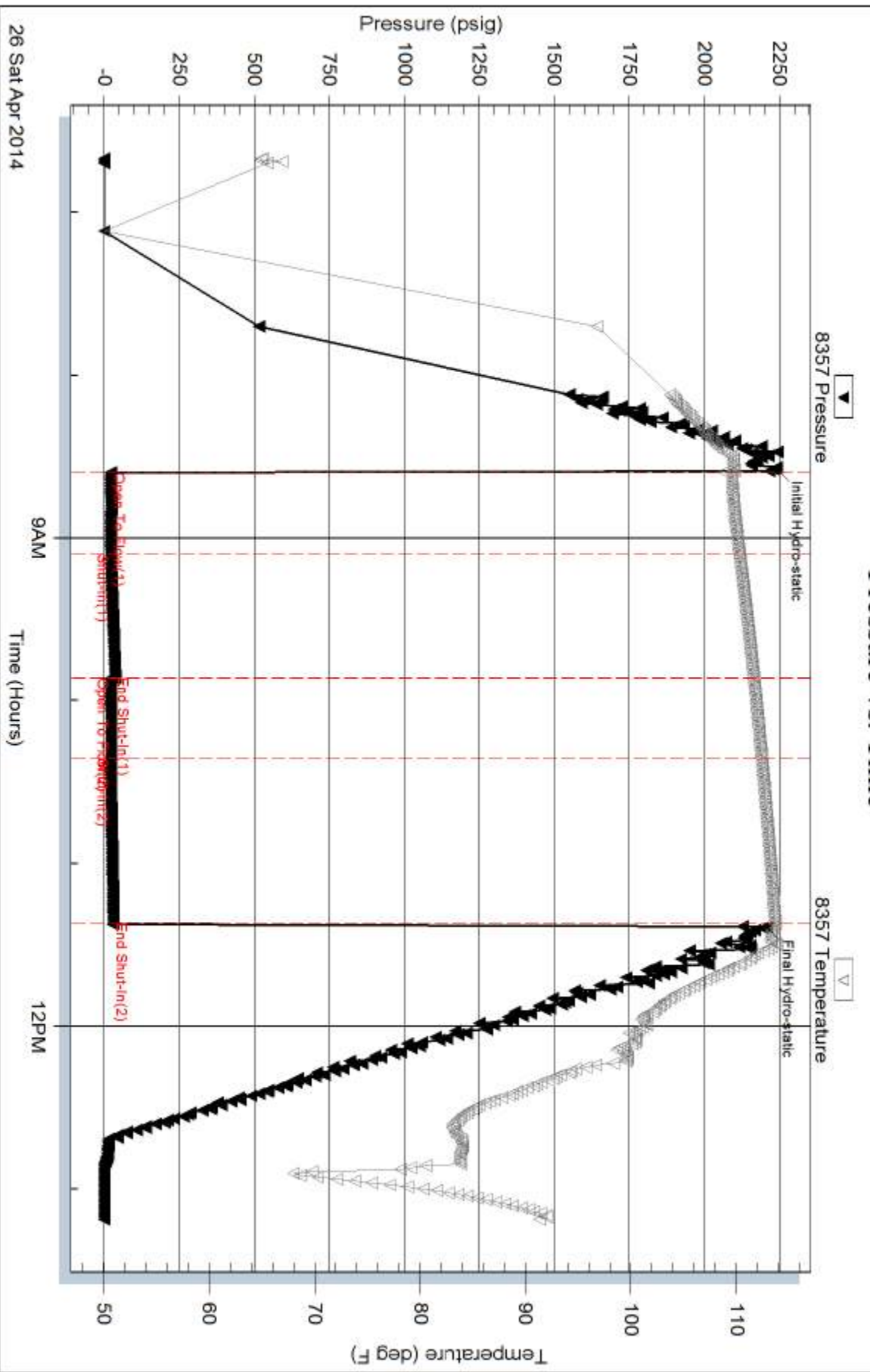
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



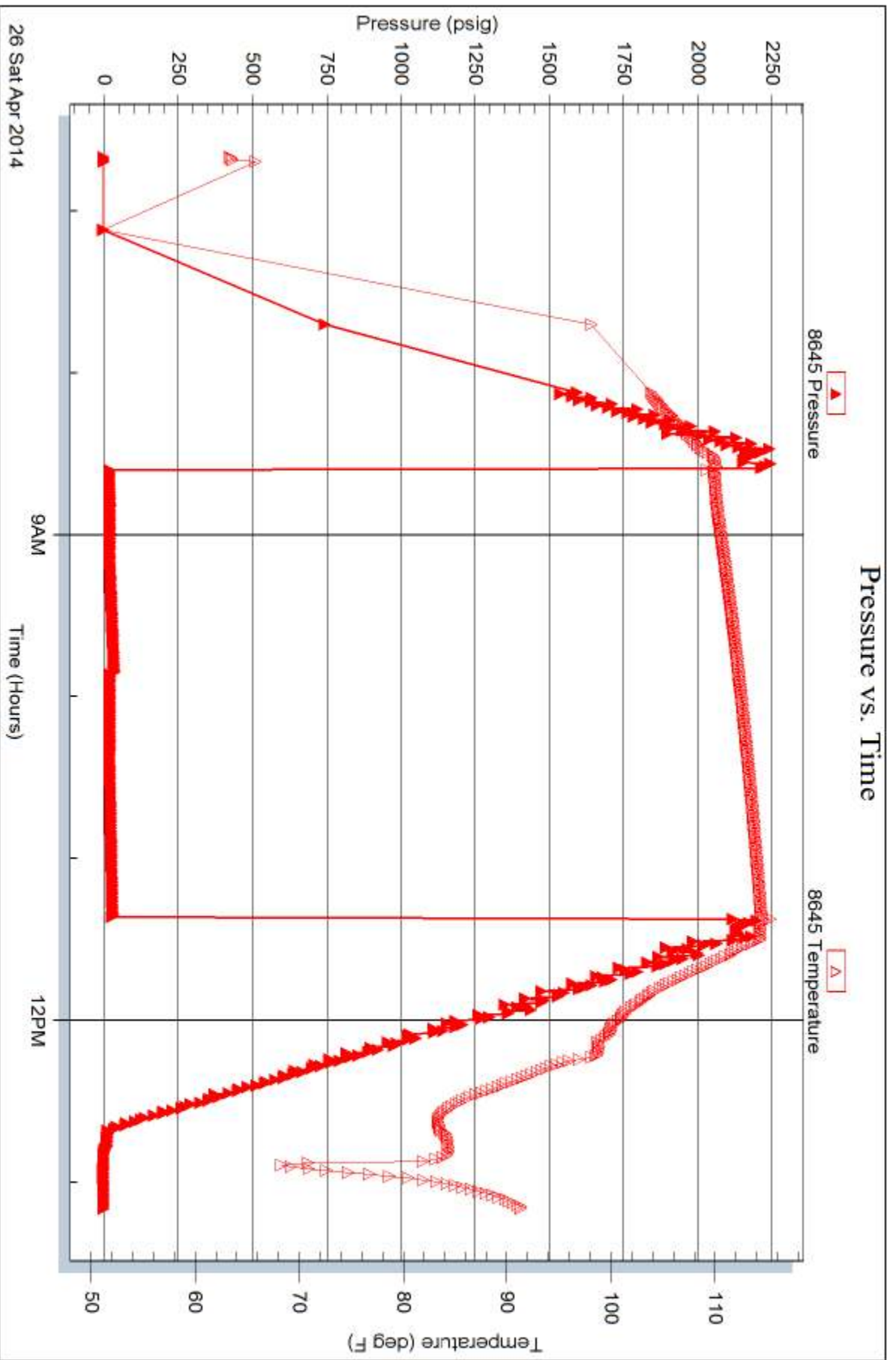
26 Sat Apr 2014

Serial #: 8645

Outside Landmark Resources, Inc.

Gerstberger #1-19

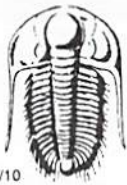
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 57677

Printed: 2014.05.01 @ 09:53:46



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 57676

4/10

Well Name & No. Gerstberger #1-19 Test No. 1 Date 4-25-14
 Company Landmark Resources, Inc. Elevation 3291 KB 3281 GL
 Address 1616 S. Voss Rd. Ste. 600 Houston, TX 77057
 Co. Rep / Geo. Wes Hansen Rig Val #1
 Location: Sec. 19 Twp. 17s Rge. 36w Co. Wichita State KS

Interval Tested 4368 - 4440 Zone Tested Marathon
 Anchor Length 72 Drill Pipe Run 4371 Mud Wt. 9.3
 Top Packer Depth 4364 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4368 Wt. Pipe Run 0 WL 8.0
 Total Depth 4440 Chlorides 4200 ppm System LCM 1*
 Blow Description 1/2" Steady blow.
No return.
No blow.
No return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>3/30</u>	Feet of <u>M</u>				<u>100</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 31 BHT 116 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2208</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>11:00</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:28</u>
(C) First Final Flow <u>27</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:31</u>
(D) Initial Shut-In <u>1102</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>17:16</u>
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>19:15</u>
(F) Second Final Flow <u>36</u>	<input checked="" type="checkbox"/> Mileage <u>68RT</u> <u>105.40</u>	Comments
(G) Final Shut-In <u>990</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2174</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>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>1680.40</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1680.40</u>	

Approved By Wesley Hansen 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. 57677

4/10

Well Name & No. Geerstberger #1-19 Test No. 2 Date 4-26-14
 Company Landmark Resources, Inc. Elevation 3291 KB 3281 GL
 Address 1616 S. Voss Rd. Ste. 600 Houston, TX 77057
 Co. Rep / Geo. Wes Hansen Rig Val #1
 Location: Sec. 19 Twp. 17s Rge. 36w Co. Wichita State Ks

Interval Tested 4436-4490 Zone Tested Altamont
 Anchor Length 54 Drill Pipe Run 4435 Mud Wt. 9.3
 Top Packer Depth 4432 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 4436 Wt. Pipe Run 0 WL 8.0
 Total Depth 4490 Chlorides 5200 ppm System LCM 1#
 Blow Description 1/2" Blow receded to weak surface blow
No return.
No blow.
No return.

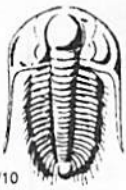
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>5</u>	Feet of <u>M</u>			%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 114 Gravity — API RW @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2237</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>6:30</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>6:40</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>8:36</u>
(D) Initial Shut-In <u>37</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>11:22</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>13:11</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>68RT</u> 105.40	Comments
(G) Final Shut-In <u>31</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2207</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>400</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>2080.40</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1680.40</u>	

Approved By Wesley Hansen 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. **56522**

4/10

Well Name & No. Overstberger #1-19 Test No. _____ Date 4-29-14
 Company Landmark Resources Inc Elevation _____ KB _____ GL _____
 Address 16165 Voss Rd Ste 600 Houston TX 77057
 Co. Rep / Geo. Wes Hansen Rig Val#1
 Location: Sec. 19 Twp. 17S Rge. 36-W Co. Wichita State Ks

Interval Tested _____ Zone Tested _____
 Anchor Length _____ Drill Pipe Run _____ Mud Wt. _____
 Top Packer Depth _____ Drill Collars Run _____ Vis _____
 Bottom Packer Depth _____ Wt. Pipe Run _____ WL _____
 Total Depth _____ Chlorides _____ ppm System _____ LCM _____
 Blow Description _____

Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT _____ Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic _____ Test _____ T-On Location 14.55
 (B) First Initial Flow _____ Jars _____ T-Started loaded tool
 (C) First Final Flow _____ Safety Joint _____ T-Open _____
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled last test
 (E) Second Initial Flow _____ Hourly Standby 1hr T-Out 4:26:14 @ 13:11
 (F) Second Final Flow _____ Mileage 105.40 Comments loaded on 4-29-14
 (G) Final Shut-In _____ Sampler _____ @ T promised check
 (H) Final Hydrostatic _____ Straddle _____ Smith 12 hrs. stdby.
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Initial Open _____
 Initial Shut-In _____
 Final Flow _____ Day Standby 2 days 1.75H Sub Total 2000
 Final Shut-In _____ Accessibility _____ Total 2105.40
 Sub Total 105.40 MP/DST Disc't _____

Approved By _____ Our Representative Colleen Cum
 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.