

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](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No 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)</i> <i>(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	S & H UNIT 1-36
Doc ID	1460477

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	S & H UNIT 1-36
Doc ID	1460477

Tops

Name	Top	Datum
Anhydrite	2501	838
B/Anhydrite	2520	818
Topeka	3753	-417
Heebner	3962	-624
Toronto	3980	-643
Lansing	4013	-672
C	4054	-712
D	4071	-726
E	4108	-771
F	4119	-790
G	4141	-814
Muncie Creek	4189	-852
H	4201	-861
I	4233	-898
J	4261	-922
Stark Shale	4284	-947
K	4296	-958
L	4338	-1006
BKC	4381	-1041
Marmaton	4446	-1104
Altamont	4472	-1136
Pawnee	4522	-1188
Myrick Station	4553	-1216
Fort Scott	4567	-1232

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	S & H UNIT 1-36
Doc ID	1460477

Tops

Name	Top	Datum
Cherokee	4595	-1258
Johnson Zone	4686	-1349
Morrow Shale	4750	-1413
U Morrow Sd	4831	-1489
Missippian	4838	-1503







## DRILL STEM TEST REPORT

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

4900 Woodway Dr Ste 880  
Houston, TX 77056

ATTN: Terry McLeod

### **S&H Unit #1-36**

#### **36-16s-37w Wichita,KS**

Start Date: 2019.04.15 @ 14:23:00

End Date: 2019.04.15 @ 23:43:30

Job Ticket #: 65213                      DST #: 1

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

Printed: 2019.04.22 @ 09:14:47





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources, Inc.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

ATTN: Terry McLeod

Job Ticket: 65213

**DST#: 1**

Test Start: 2019.04.15 @ 14:23:00

## GENERAL INFORMATION:

Formation: **LKC I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:04:00

Time Test Ended: 23:43:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

**Interval: 4235.00 ft (KB) To 4250.00 ft (KB) (TVD)**

Reference Elevations: 3336.00 ft (KB)

Total Depth: 4250.00 ft (KB) (TVD)

3325.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8522 Inside**

Press@RunDepth: 339.95 psig @ 4236.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.15 End Date: 2019.04.15

Last Calib.: 2019.04.15

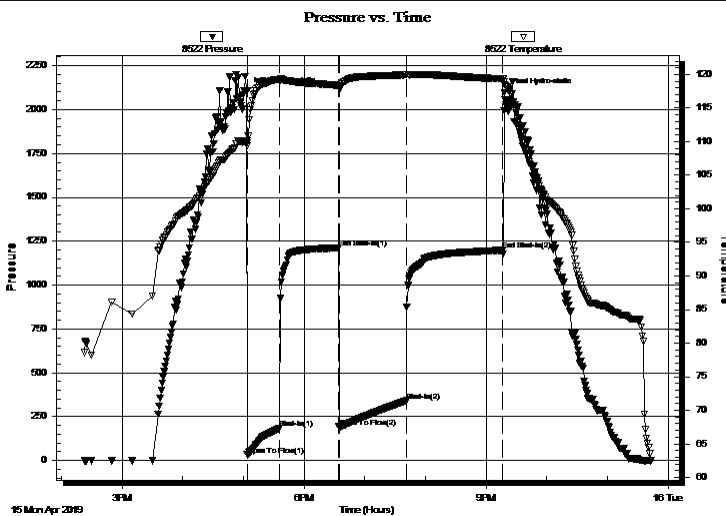
Start Time: 14:23:05 End Time: 23:43:30

Time On Btm: 2019.04.15 @ 17:03:30

Time Off Btm: 2019.04.15 @ 21:18:15

**TEST COMMENT:** 30- IF: BOB @ 14 min. built to 20".  
60- IS: No return.  
60- FF: BOB @ 20 min. built to 32"  
90" FSI: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2100.93	110.05	Initial Hydro-static
1	31.25	109.85	Open To Flow (1)
33	183.31	119.29	Shut-In(1)
91	1211.56	118.37	End Shut-In(1)
91	191.99	117.94	Open To Flow (2)
158	339.95	119.95	Shut-In(2)
253	1197.44	119.34	End Shut-In(2)
255	2095.32	118.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
700.00	smcw 2m 98w (oil Spots)	7.33
20.00	Oil 100o	0.28

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources, Inc.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

Job Ticket: 65213

**DST#: 1**

ATTN: Terry McLeod

Test Start: 2019.04.15 @ 14:23:00

## Tool Information

Drill Pipe:	Length: 3958.00 ft	Diameter: 3.80 inches	Volume: 55.52 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 273.00 ft	Diameter: 2.25 inches	Volume: 1.34 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 56.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 89000.00 lb
Depth to Top Packer:	4235.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	42.00 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			4209.00	
Shut In Tool	5.00		Fluid	4214.00	
Hydraulic tool	5.00			4219.00	
Jars	5.00			4224.00	
Safety Joint	2.00			4226.00	
Packer	5.00		Inside	4231.00	27.00 Bottom Of Top Packer
Packer	4.00			4235.00	
Stubb	1.00			4236.00	
Recorder	0.00	8522	Inside	4236.00	
Recorder	0.00	8319	Outside	4236.00	
Perforations	11.00			4247.00	
Bullnose	3.00			4250.00	15.00 Bottom Packers & Anchor

**Total Tool Length: 42.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources, Inc.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

Job Ticket: 65213

**DST#: 1**

ATTN: Terry McLeod

Test Start: 2019.04.15 @ 14:23:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

23 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

53000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
700.00	smcw 2m 98w (oil Spots)	7.332
20.00	Oil 100o	0.281

Total Length: 720.00 ft      Total Volume: 7.613 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

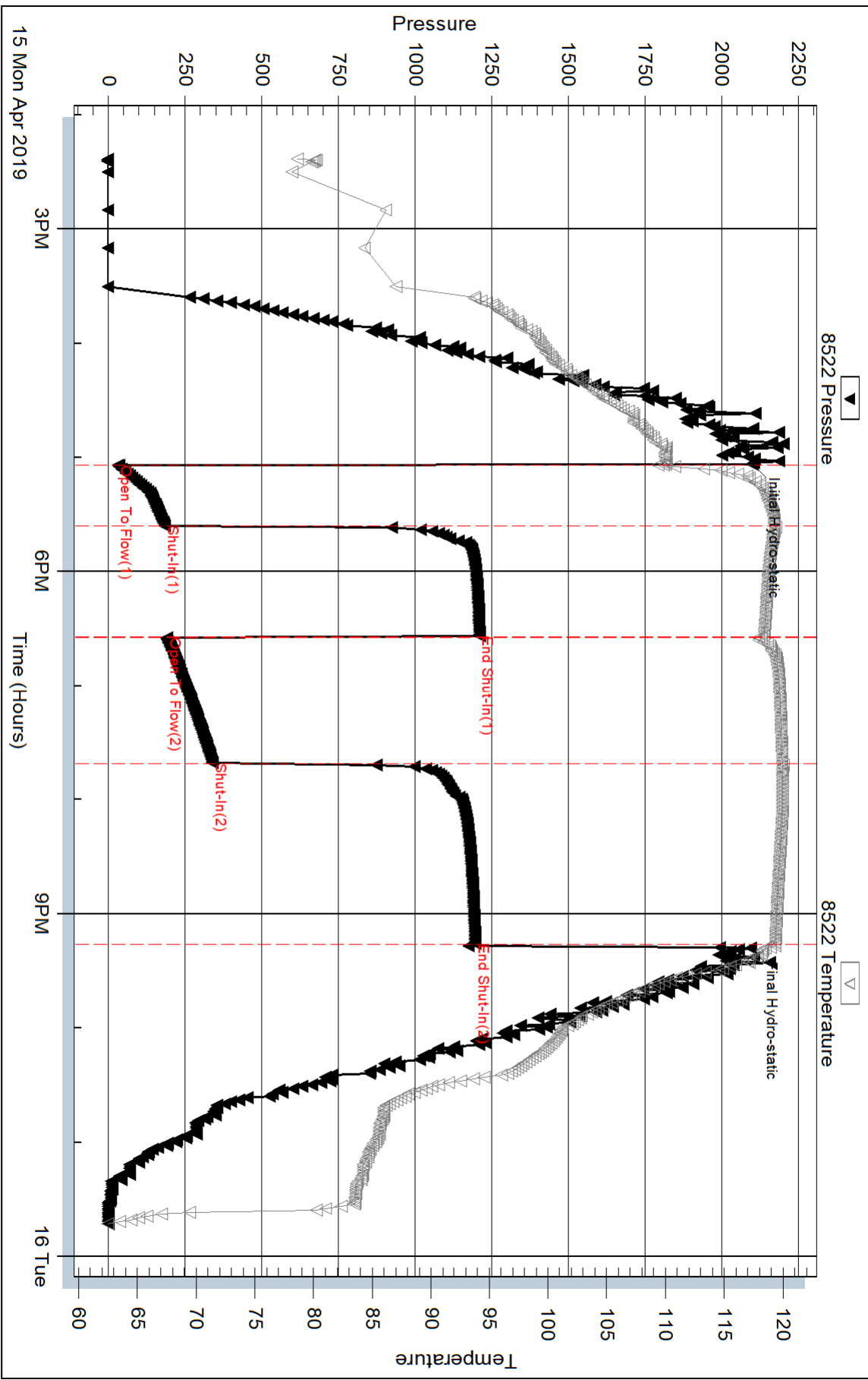
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .167 @ 61f = 53000ppm

# Pressure vs. Time

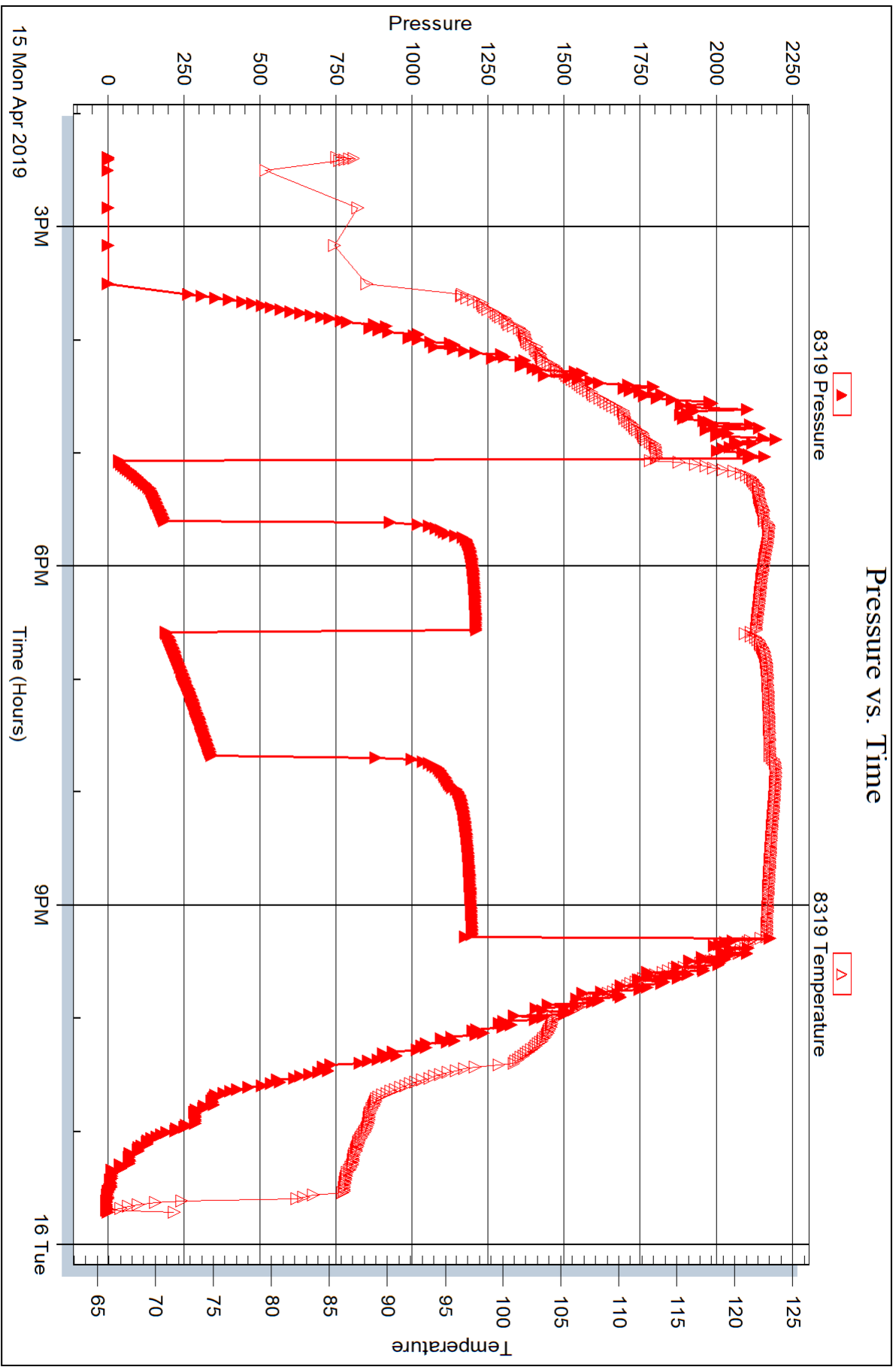


Serial #: 8319

Outside Landmark Resources, Inc.

S&H Unit #1-36

DST Test Number: 1





## DRILL STEM TEST REPORT

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

4900 Woodway Dr Ste 880  
Houston, TX 77056

ATTN: Terry McLeod

### **S&H Unit #1-36**

#### **36-16s-37w Wichita,KS**

Start Date: 2019.04.16 @ 09:11:00

End Date: 2019.04.16 @ 16:25:30

Job Ticket #: 65214                      DST #: 2

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

Printed: 2019.04.22 @ 09:14:21



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources, Inc.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

ATTN: Terry McLeod

Job Ticket: 65214

**DST#: 2**

Test Start: 2019.04.16 @ 09:11:00

## GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:44:00

Time Test Ended: 16:25:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4282.00 ft (KB) To 4310.00 ft (KB) (TVD)**

Reference Elevations: 3336.00 ft (KB)

Total Depth: 4315.00 ft (KB) (TVD)

3325.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8522**

**Inside**

Press@RunDepth: 1098.75 psig @ 4283.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.16

End Date:

2019.04.16

Last Calib.:

2019.04.16

Start Time:

09:11:05

End Time:

16:25:29

Time On Btm:

2019.04.16 @ 11:43:30

Time Off Btm:

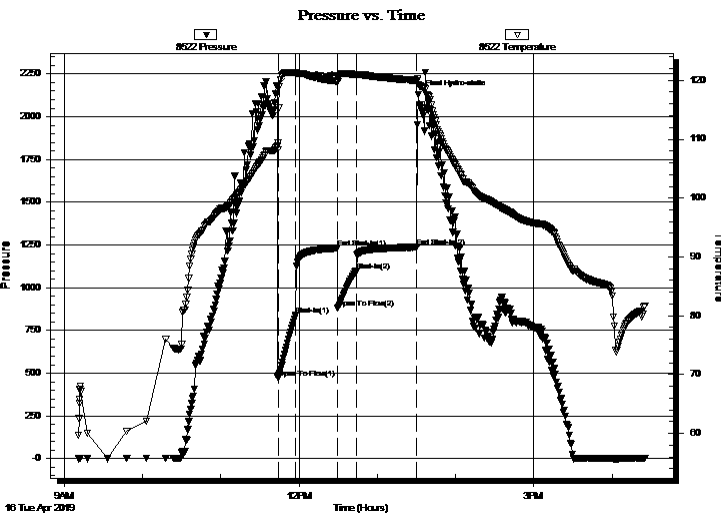
2019.04.16 @ 13:31:45

**TEST COMMENT:** 15- IF: BOB @ 20 sec. built to 203".

30- IS: No return.

15- FF: BOB @ 1 min. built to 85"

45- FSI: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2180.48	108.82	Initial Hydro-static
1	471.10	109.47	Open To Flow (1)
14	841.79	121.25	Shut-In(1)
46	1231.28	119.85	End Shut-In(1)
47	882.83	119.82	Open To Flow (2)
61	1098.75	120.97	Shut-In(2)
107	1236.54	119.99	End Shut-In(2)
109	2129.05	119.28	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2020.00	smcw 2m 98w (oil Spots on top)	25.85

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Landmark Resources, Inc.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

ATTN: Terry McLeod

Job Ticket: 65214

**DST#: 2**

Test Start: 2019.04.16 @ 09:11:00

### GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:44:00

Time Test Ended: 16:25:30

**Interval: 4282.00 ft (KB) To 4310.00 ft (KB) (TVD)**

Total Depth: 4315.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Reference Elevations: 3336.00 ft (KB)

3325.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8845**

**Below (Straddle)**

Press@RunDepth: psig @ 4311.00 ft (KB)

Start Date: 2019.04.16

End Date:

2019.04.16

Start Time: 09:11:05

End Time:

16:25:14

Capacity: 8000.00 psig

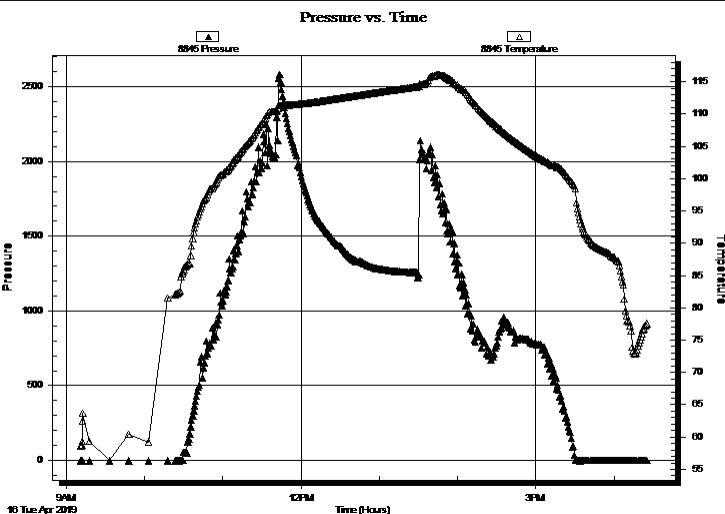
Last Calib.:

2019.04.16

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 15- IF: BOB @ 20 sec. built to 203".  
30- IS: No return.  
15- FF: BOB @ 1 min. built to 85"  
45- FSI: No return.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
2020.00	smcw 2m 98w (oil Spots on top)	25.85

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Landmark Resources, Inc.

**36-16s-37w Wichita,KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

Job Ticket: 65214

**DST#: 2**

ATTN: Terry McLeod

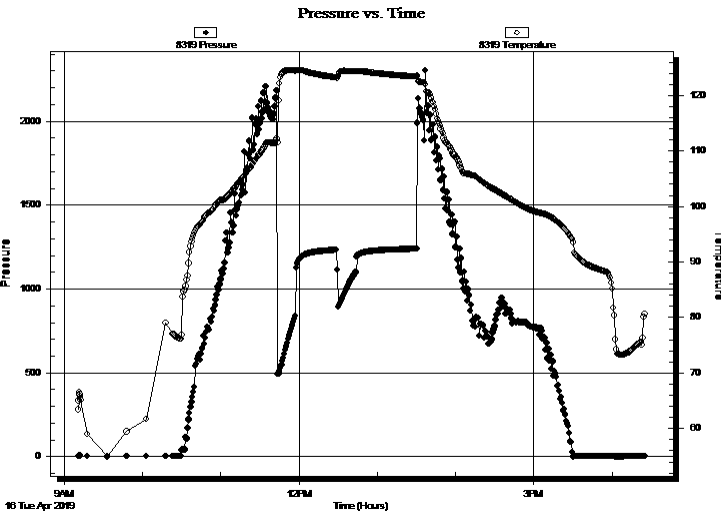
Test Start: 2019.04.16 @ 09:11:00

**GENERAL INFORMATION:**

Formation: <b>LKC K</b>			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 11:44:00		Tester: Bradley Walter	
Time Test Ended: 16:25:30		Unit No: 78	
<b>Interval: 4282.00 ft (KB) To 4310.00 ft (KB) (TVD)</b>		Reference Elevations: 3336.00 ft (KB)	
Total Depth: 4315.00 ft (KB) (TVD)		3325.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 11.00 ft	

<b>Serial #: 8319</b>	<b>Outside</b>				
Press@RunDepth:	psig @	4283.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2019.04.16	End Date:	2019.04.16	Last Calib.:	2019.04.16
Start Time:	09:11:05	End Time:	16:25:29	Time On Btm:	
				Time Off Btm:	

**TEST COMMENT:** 15- IF: BOB @ 20 sec. built to 203".  
30- IS: No return.  
15- FF: BOB @ 1 min. built to 85"  
45- FSI: No return.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
2020.00	smcw 2m 98w (oil Spots on top)	25.85

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources, Inc.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

Job Ticket: 65214

**DST#: 2**

ATTN: Terry McLeod

Test Start: 2019.04.16 @ 09:11:00

## Tool Information

Drill Pipe:	Length: 3990.00 ft	Diameter: 3.80 inches	Volume: 55.97 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 273.00 ft	Diameter: 2.25 inches	Volume: 1.34 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 57.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 89000.00 lb
Depth to Top Packer:	4282.00 ft			Final 97000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	60.00 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			4256.00	
Shut In Tool	5.00		Fluid	4261.00	
Hydraulic tool	5.00			4266.00	
Jars	5.00			4271.00	
Safety Joint	2.00			4273.00	
Packer	5.00		Inside	4278.00	27.00 Bottom Of Top Packer
Packer	4.00			4282.00	
Stubb	1.00			4283.00	
Recorder	0.00	8522	Inside	4283.00	
Recorder	0.00	8319	Outside	4283.00	
Perforations	23.00			4306.00	
Blank Off Sub	1.00			4307.00	33.00 Tool Interval
Packer	3.00			4310.00	
Blank spacing	1.00			4311.00	
Recorder	0.00	8845	Below	4311.00	
Perforations	1.00			4312.00	
Bullnose	3.00			4315.00	1000059.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>60.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources, Inc.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

Job Ticket: 65214

**DST#: 2**

ATTN: Terry McLeod

Test Start: 2019.04.16 @ 09:11:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

45000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2020.00	smcw 2m 98w (oil Spots on top)	25.848

Total Length: 2020.00 ft      Total Volume: 25.848 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: H2s in water 24 ppm dropped bar  
rw is .144 @ 82F = 45000ppm

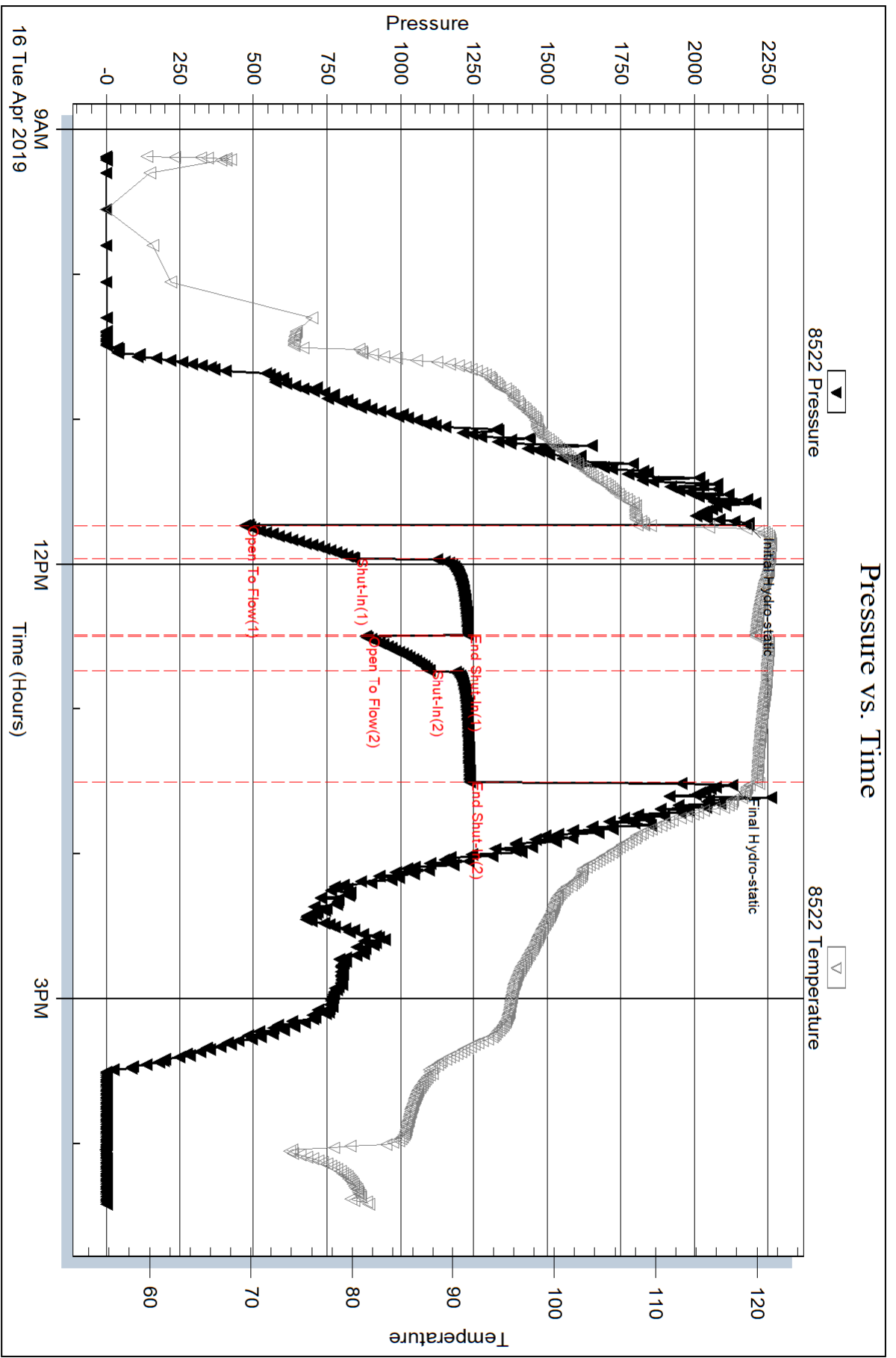
Serial #: 8522

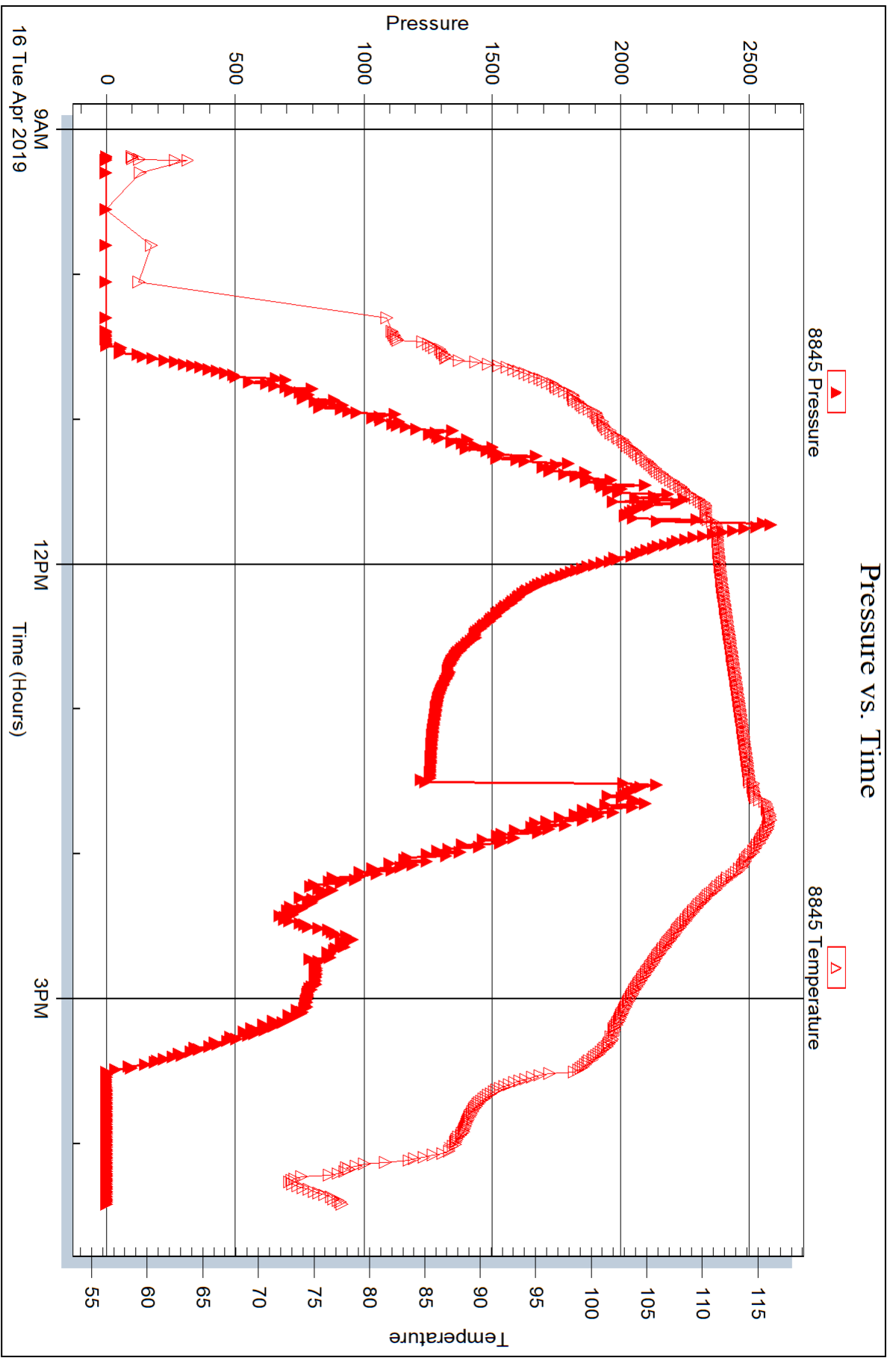
Inside

Landmark Resources, Inc.

S&H Unit #1-36

DST Test Number: 2



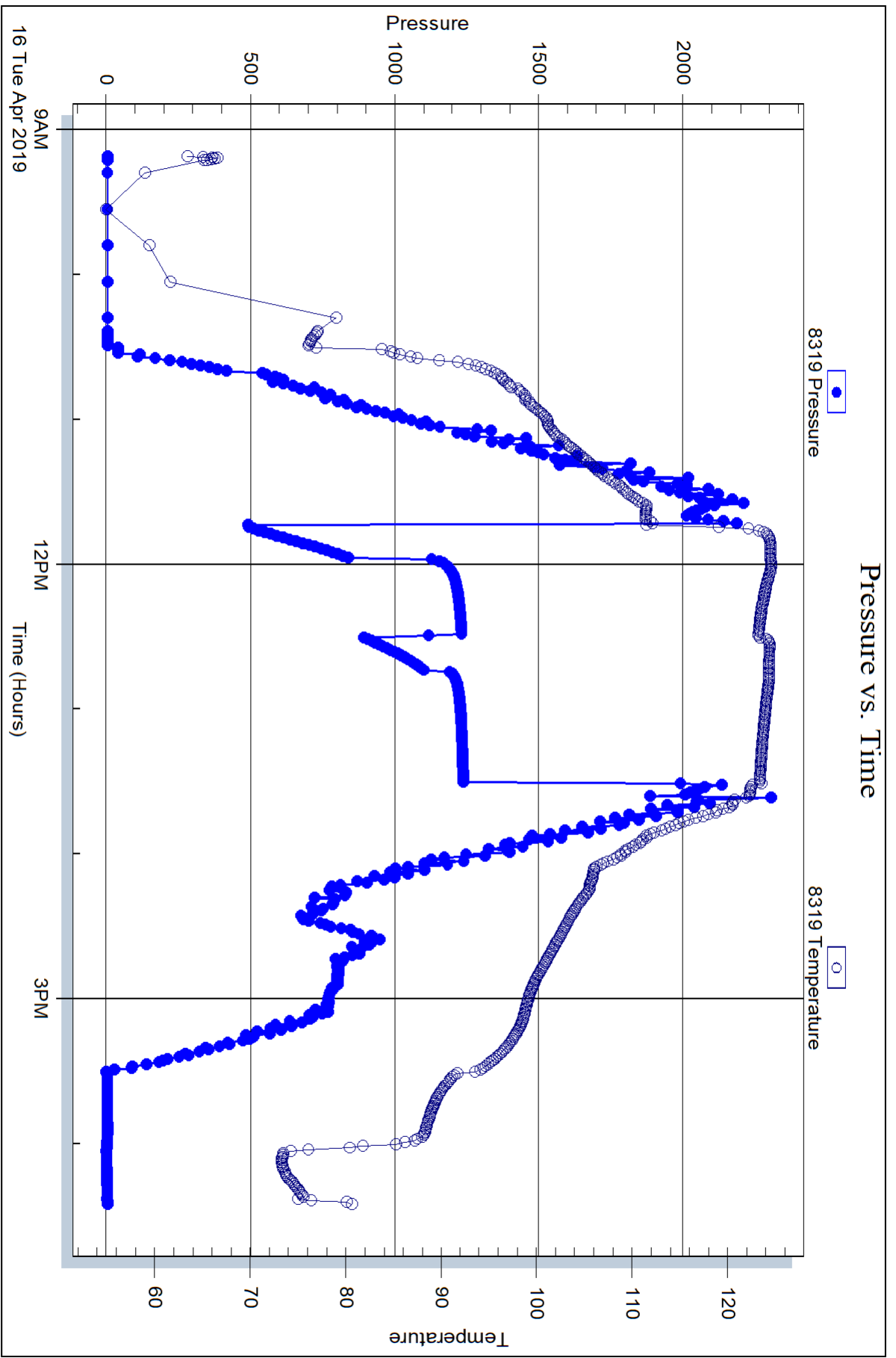


Serial #: 8319

Outside Landmark Resources, Inc.

S&H Unit #1-36

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65214

Printed: 2019.04.22 @ 09:14:23



## DRILL STEM TEST REPORT

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

4900 Woodway Dr Ste 880  
Houston, TX 77056

ATTN: Terry McLeod

### **S&H Unit #1-36**

### **36-16s-37w Wichita,KS**

Start Date: 2019.04.17 @ 09:45:00

End Date: 2019.04.17 @ 16:54:00

Job Ticket #: 65215                      DST #: 3

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

Printed: 2019.04.22 @ 09:13:57





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources, Inc.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

ATTN: Terry McLeod

Job Ticket: 65215

**DST#: 3**

Test Start: 2019.04.17 @ 09:45:00

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:15:45

Time Test Ended: 16:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4448.00 ft (KB) To 4467.00 ft (KB) (TVD)**

Reference Elevations: 3336.00 ft (KB)

Total Depth: 4467.00 ft (KB) (TVD)

3325.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8522 Inside**

Press@RunDepth: 17.36 psig @ 4449.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.17

End Date:

2019.04.17

Last Calib.:

2019.04.17

Start Time:

09:45:05

End Time:

16:53:59

Time On Btm:

2019.04.17 @ 12:15:15

Time Off Btm:

2019.04.17 @ 14:55:30

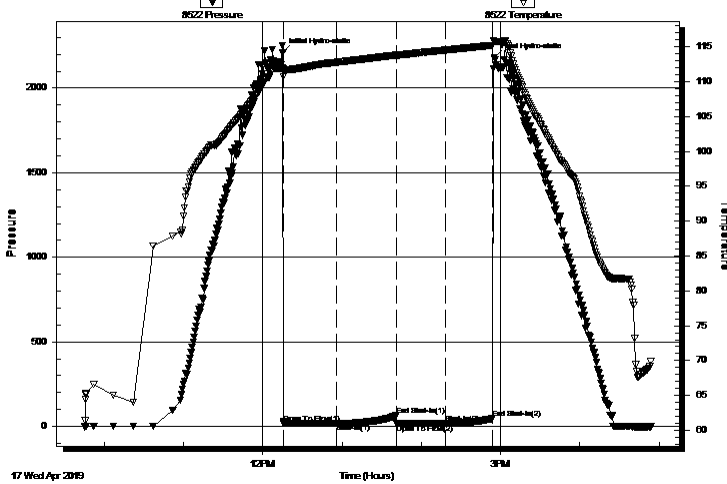
TEST COMMENT: 30- IF: blow died @ 10 min.

45- IS: No return.

30- FF: No blow .

45- FSI: No return.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2211.06	111.92	Initial Hydro-static
1	17.02	111.39	Open To Flow (1)
41	17.27	112.78	Shut-In(1)
86	64.73	113.84	End Shut-In(1)
86	15.90	113.76	Open To Flow (2)
123	17.36	114.54	Shut-In(2)
159	47.17	115.24	End Shut-In(2)
161	2179.94	115.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100m (oil Spots)	0.01

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Landmark Resources, Inc.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

Job Ticket: 65215

**DST#: 3**

ATTN: Terry McLeod

Test Start: 2019.04.17 @ 09:45:00

**GENERAL INFORMATION:**

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:15:45

Time Test Ended: 16:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4448.00 ft (KB) To 4467.00 ft (KB) (TVD)**

Reference Elevations: 3336.00 ft (KB)

Total Depth: 4467.00 ft (KB) (TVD)

3325.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: psig @ 4449.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.17 End Date: 2019.04.17

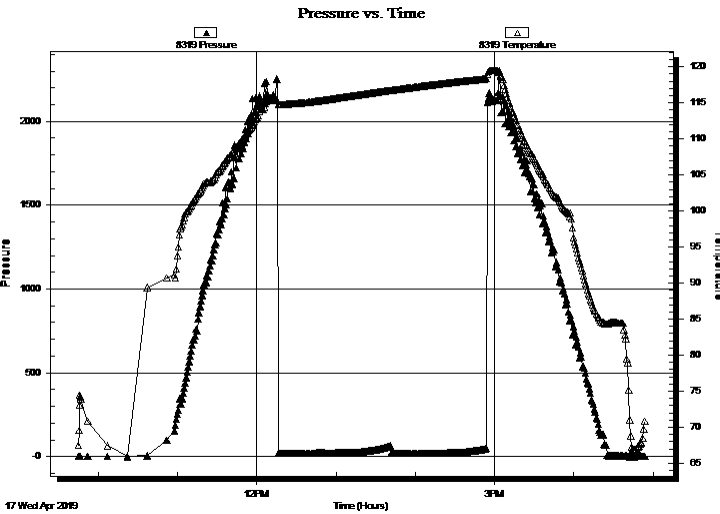
Last Calib.: 2019.04.17

Start Time: 09:45:05 End Time: 16:53:59

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF: blow died @ 10 min.  
45- IS: No return.  
30- FF: No blow .  
45- FSI: No return.



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
3.00	mud 100m (oil Spots)	0.01

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources, Inc.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

Job Ticket: 65215

**DST#: 3**

ATTN: Terry McLeod

Test Start: 2019.04.17 @ 09:45:00

## Tool Information

Drill Pipe:	Length: 4180.00 ft	Diameter: 3.80 inches	Volume: 58.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 273.00 ft	Diameter: 2.25 inches	Volume: 1.34 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 59.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4448.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			4422.00	
Shut In Tool	5.00		Fluid	4427.00	
Hydraulic tool	5.00			4432.00	
Jars	5.00			4437.00	
Safety Joint	2.00			4439.00	
Packer	5.00		Inside	4444.00	27.00 Bottom Of Top Packer
Packer	4.00			4448.00	
Stubb	1.00			4449.00	
Recorder	0.00	8522	Inside	4449.00	
Recorder	0.00	8319	Outside	4449.00	
Perforations	15.00			4464.00	
Bullnose	3.00			4467.00	19.00 Bottom Packers & Anchor

**Total Tool Length: 46.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources, Inc.

**36-16s-37w Wichita,KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

Job Ticket: 65215

**DST#: 3**

ATTN: Terry McLeod

Test Start: 2019.04.17 @ 09:45:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100m (oil Spots)	0.015

Total Length: 3.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

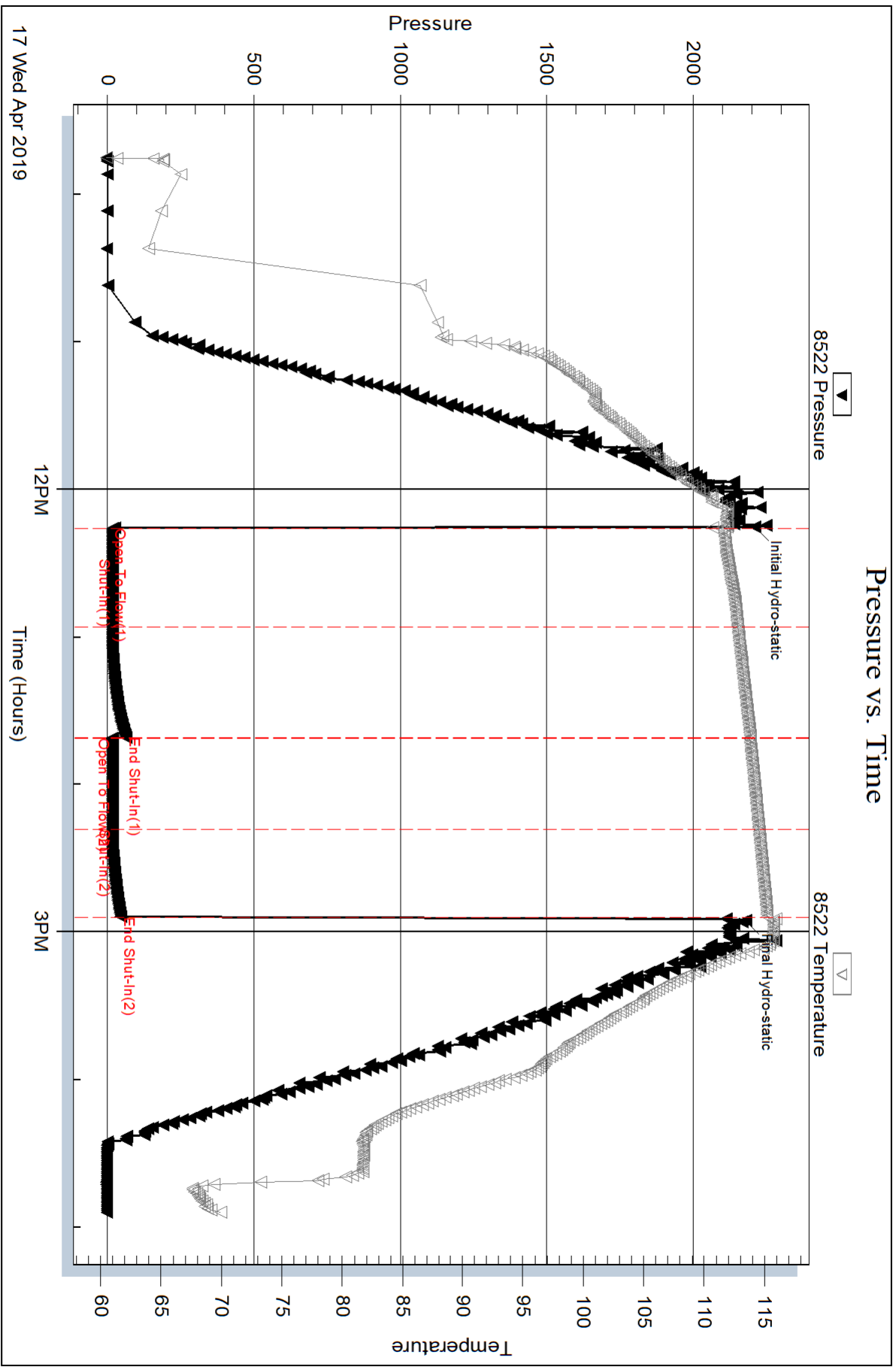
Serial #: 8522

Inside

Landmark Resources, Inc.

S&H Unit #1-36

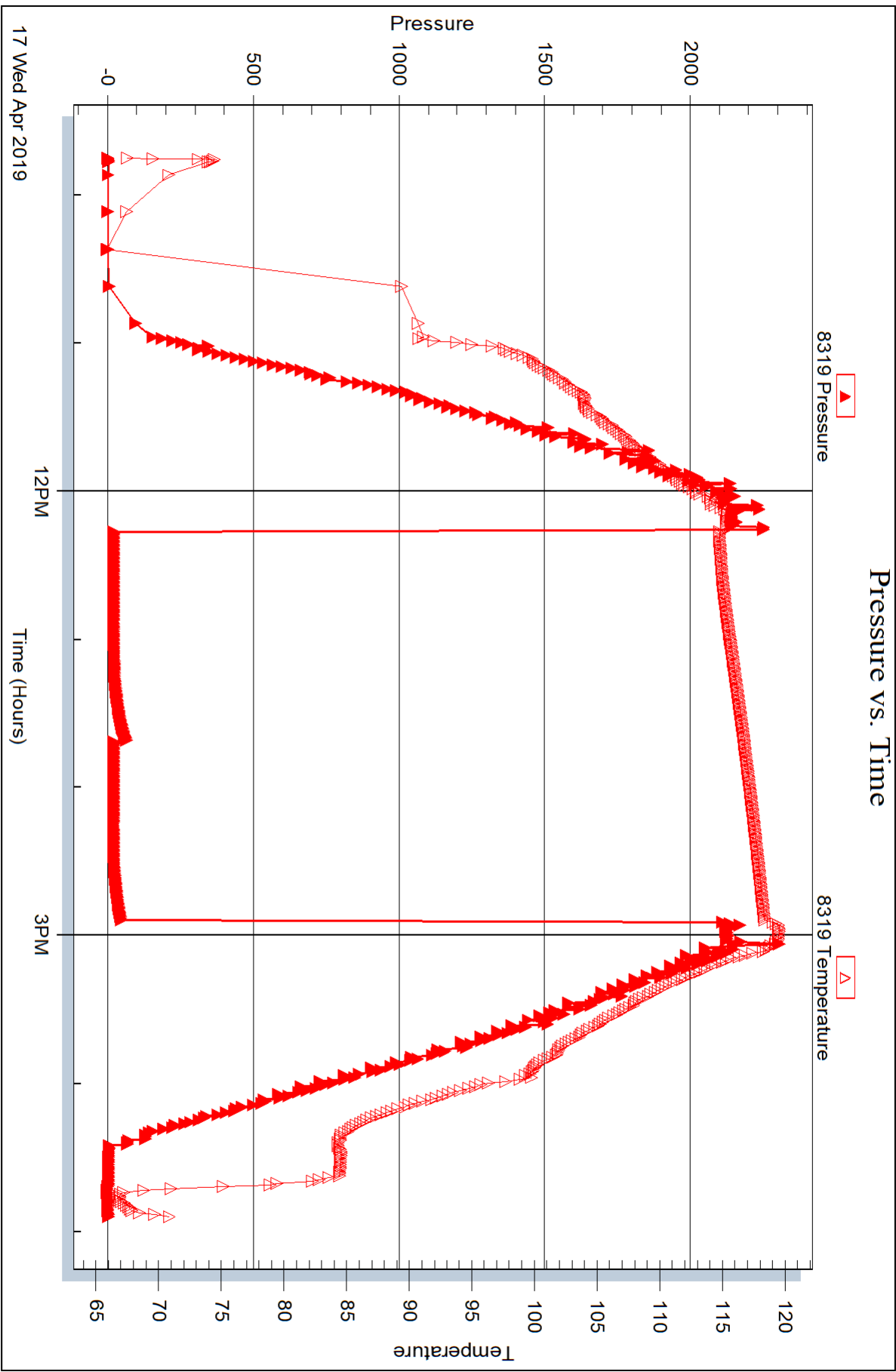
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 65215

Printed: 2019.04.22 @ 09:13:58



17 Wed Apr 2019



## DRILL STEM TEST REPORT

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

4900 Woodway Dr Ste 880  
Houston, TX 77056

ATTN: Terry McLeod

### **S&H Unit #1-36**

#### **36-16s-37w Wichita,KS**

Start Date: 2019.04.18 @ 00:00:07

End Date: 2019.04.18 @ 06:42:22

Job Ticket #: 65216                      DST #: 4

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

Printed: 2019.04.22 @ 09:13:35



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources, Inc.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

ATTN: Terry McLeod

Job Ticket: 65216

**DST#: 4**

Test Start: 2019.04.18 @ 00:00:07

## GENERAL INFORMATION:

Formation: **Altamont.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:11:52

Time Test Ended: 06:42:22

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4466.00 ft (KB) To 4490.00 ft (KB) (TVD)**

Total Depth: 4490.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3336.00 ft (KB)

3325.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8522 Inside**

Press@RunDepth: 17.91 psig @ 4467.00 ft (KB)

Start Date: 2019.04.18

End Date:

2019.04.18

Start Time: 00:07:05

End Time:

06:49:14

Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2019.04.18 @ 02:18:15

Time Off Btm: 2019.04.18 @ 04:51:45

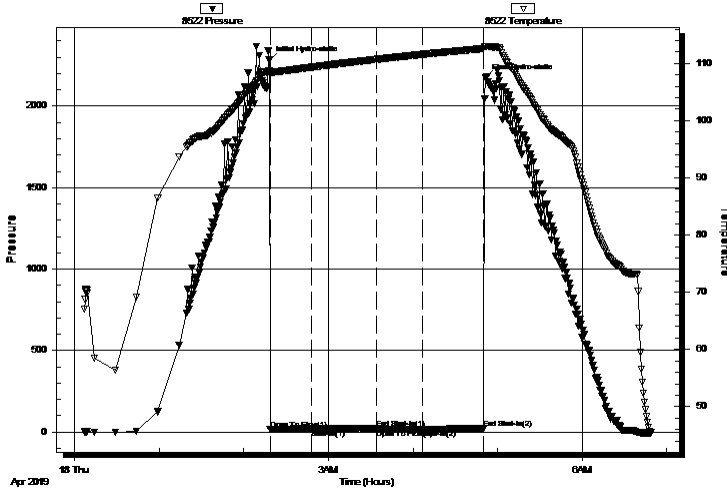
TEST COMMENT: 30- IF: Surface blow, died @ 30 min.

45- ISI: No return.

30- FF: No blow.

45- FSI: No return.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2281.77	108.71	Initial Hydro-static
1	17.68	108.17	Open To Flow (1)
30	19.20	109.33	Shut-In(1)
76	23.04	110.70	End Shut-In(1)
76	17.61	110.69	Open To Flow (2)
109	17.91	111.57	Shut-In(2)
152	20.80	112.58	End Shut-In(2)
154	2171.88	112.96	Final Hydro-static

## Recovery

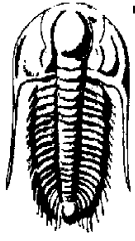
Length (ft)	Description	Volume (bbl)
2.00	mud 100m (oil Spots)	0.01

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources, Inc.

4900 Woodway Dr Ste 880  
Houston, TX 77056

ATTN: Terry McLeod

**36-16s-37w Wichita,KS**

**S&H Unit #1-36**

Job Ticket: 65216

**DST#: 4**

Test Start: 2019.04.18 @ 00:00:07

## GENERAL INFORMATION:

Formation: **Altamont.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:11:52

Time Test Ended: 06:42:22

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4466.00 ft (KB) To 4490.00 ft (KB) (TVD)**

Reference Elevations: 3336.00 ft (KB)

Total Depth: 4490.00 ft (KB) (TVD)

3325.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: psig @ 4467.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.04.18

End Date:

2019.04.18

Last Calib.:

2019.04.18

Start Time: 00:07:05

End Time:

06:49:14

Time On Btm:

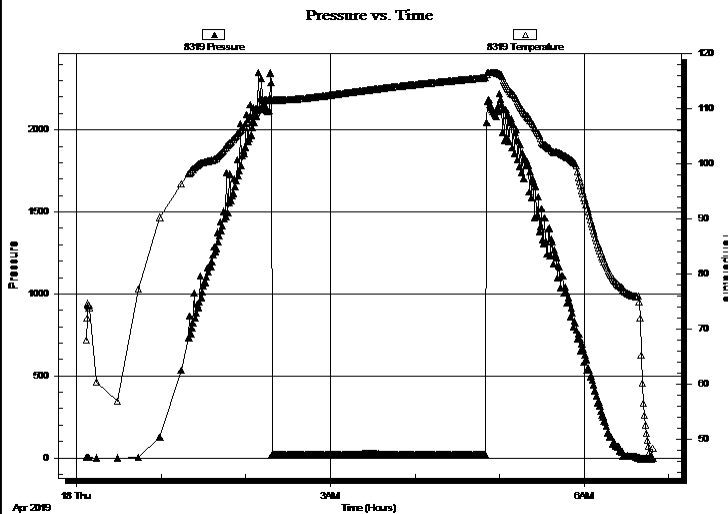
Time Off Btm:

**TEST COMMENT:** 30- IF: Surface blow, died @ 30 min.

45- IS: No return.

30- FF: No blow.

45- FSI: No return.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	mud 100m (oil Spots)	0.01

## 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.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

Job Ticket: 65216

**DST#: 4**

ATTN: Terry McLeod

Test Start: 2019.04.18 @ 00:00:07

## Tool Information

Drill Pipe:	Length: 4180.00 ft	Diameter: 3.80 inches	Volume: 58.63 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 273.00 ft	Diameter: 2.25 inches	Volume: 1.34 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 59.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4466.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	51.00 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			4440.00	
Shut In Tool	5.00		Fluid	4445.00	
Hydraulic tool	5.00			4450.00	
Jars	5.00			4455.00	
Safety Joint	2.00			4457.00	
Packer	5.00		Inside	4462.00	27.00 Bottom Of Top Packer
Packer	4.00			4466.00	
Stubb	1.00			4467.00	
Recorder	0.00	8522	Inside	4467.00	
Recorder	0.00	8319	Outside	4467.00	
Perforations	20.00			4487.00	
Bullnose	3.00			4490.00	24.00 Bottom Packers & Anchor

**Total Tool Length: 51.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources, Inc.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

Job Ticket: 65216

**DST#: 4**

ATTN: Terry McLeod

Test Start: 2019.04.18 @ 00:00:07

## 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	mud 100m (oil Spots)	0.010

Total Length: 2.00 ft      Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

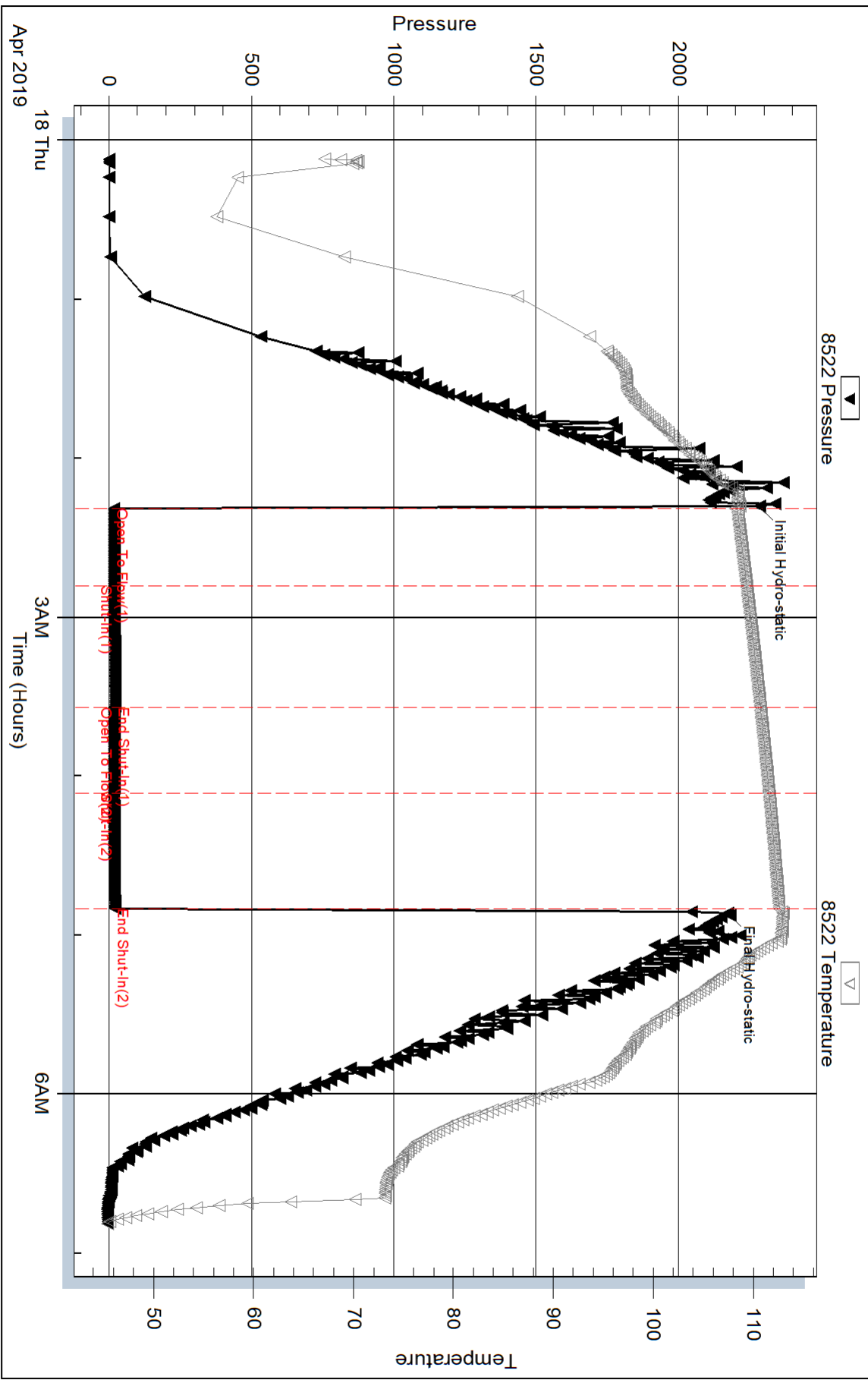
Serial #:

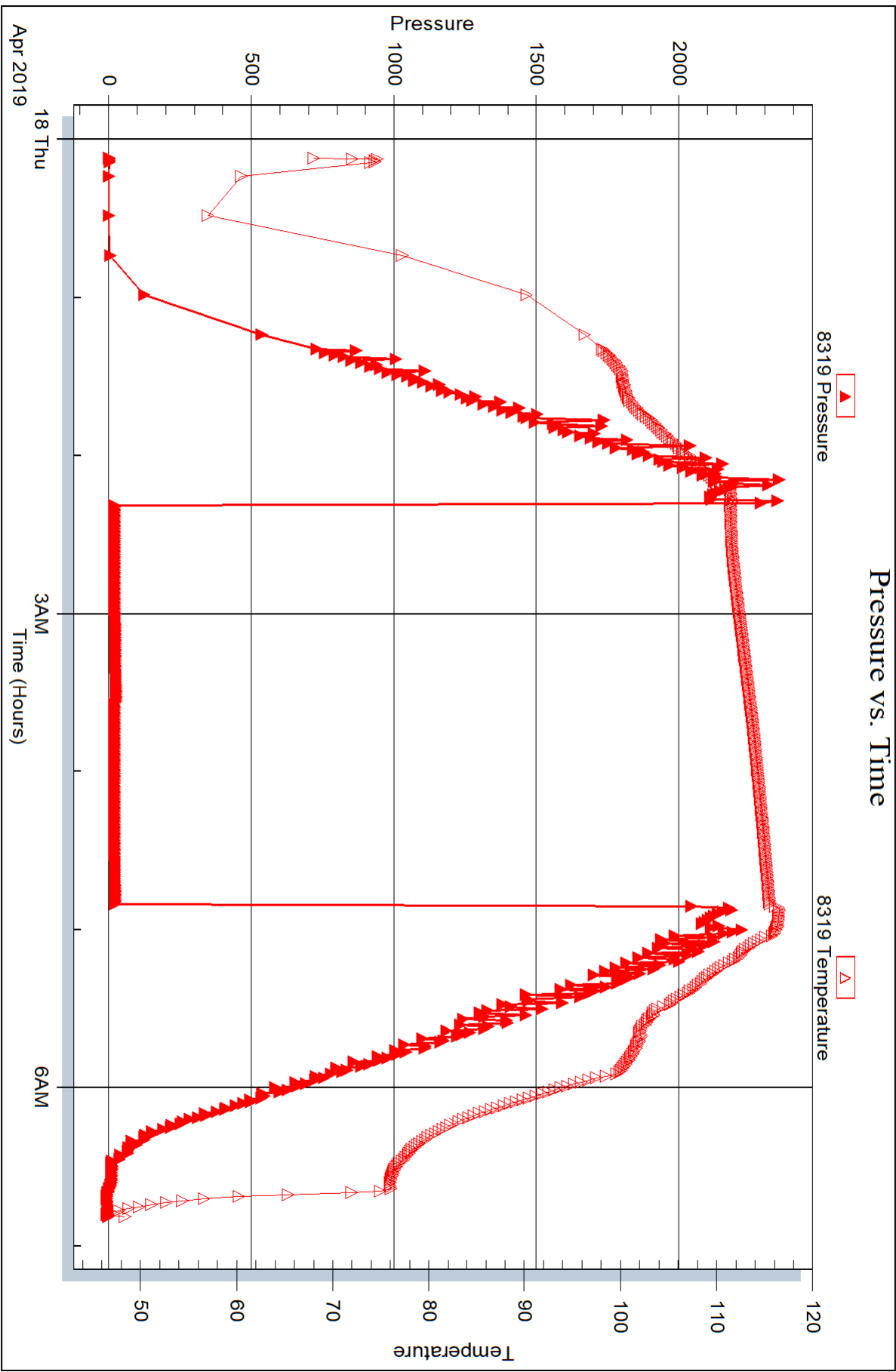
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

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

4900 Woodway Dr Ste 880  
Houston, TX 77056

ATTN: Terry McLeod

### **S&H Unit #1-36**

### **36-16s-37w Wichita,KS**

Start Date: 2019.04.18 @ 21:37:00

End Date: 2019.04.19 @ 06:09:45

Job Ticket #: 65217                      DST #: 5

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

Printed: 2019.04.22 @ 09:13:04



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources, Inc.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

ATTN: Terry McLeod

Job Ticket: 65217

**DST#: 5**

Test Start: 2019.04.18 @ 21:37:00

## GENERAL INFORMATION:

Formation: **Pawnee- Myric Statio**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:28:00

Time Test Ended: 06:09:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4508.00 ft (KB) To 4595.00 ft (KB) (TVD)**

Total Depth: 4595.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3336.00 ft (KB)

3325.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8522 Inside**

Press@RunDepth: 67.07 psig @ 4509.00 ft (KB)

Start Date: 2019.04.18

End Date:

2019.04.19

Start Time: 20:37:05

End Time:

05:09:45

Capacity: 8000.00 psig

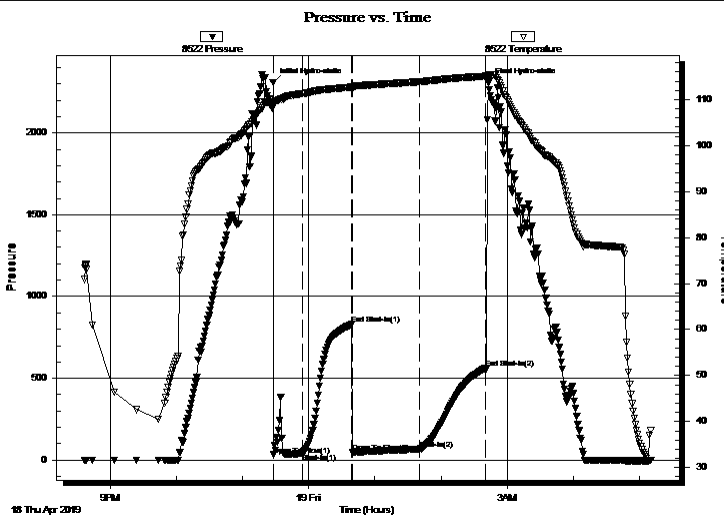
Last Calib.: 2019.04.19

Time On Btm: 2019.04.18 @ 23:27:45

Time Off Btm: 2019.04.19 @ 02:43:00

**TEST COMMENT:** 30- IF: 8" blow.  
45- IS: No return.  
60- FF: BOB @ 30 min. built to 14 1/2".  
60- FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2306.51	109.57	Initial Hydro-static
1	31.07	108.61	Open To Flow (1)
27	40.37	111.26	Shut-In(1)
72	830.26	112.69	End Shut-In(1)
72	45.33	112.41	Open To Flow (2)
133	67.07	113.86	Shut-In(2)
193	562.89	115.06	End Shut-In(2)
196	2305.07	115.44	Final Hydro-static

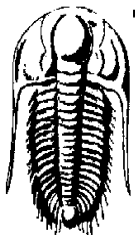
## Recovery

Length (ft)	Description	Volume (bbl)
80.00	gmco 15g 30m 55o	0.39
70.00	go 10g 90o	0.34
0.00	200' GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Landmark Resources, Inc.

4900 Woodway Dr Ste 880  
Houston, TX 77056

ATTN: Terry McLeod

**36-16s-37w Wichita, KS**

**S&H Unit #1-36**

Job Ticket: 65217

**DST#: 5**

Test Start: 2019.04.18 @ 21:37:00

### GENERAL INFORMATION:

Formation: **Pawnee- Myric Statio**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:28:00

Time Test Ended: 06:09:45

**Interval: 4508.00 ft (KB) To 4595.00 ft (KB) (TVD)**

Total Depth: 4595.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Reference Elevations: 3336.00 ft (KB)

3325.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: psig @ 4509.00 ft (KB)

Start Date: 2019.04.18

End Date:

2019.04.19

Capacity: 8000.00 psig

Last Calib.:

2019.04.19

Start Time: 20:37:05

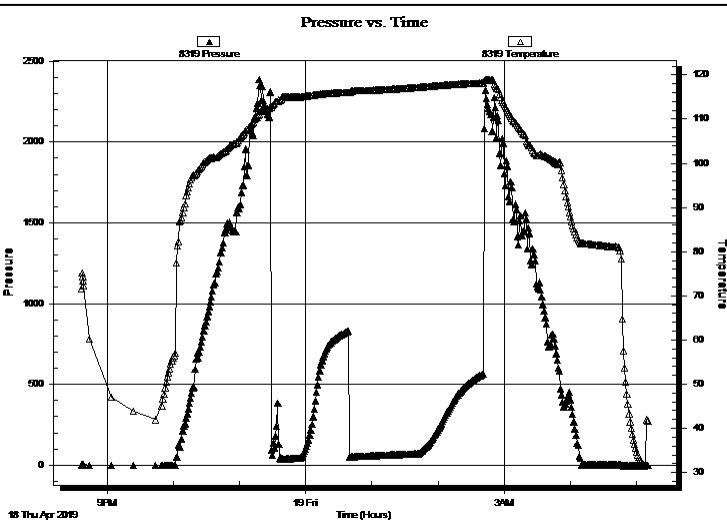
End Time:

05:09:45

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30- IF: 8" blow.  
45- IS: No return.  
60- FF: BOB @ 30 min. built to 14 1/2".  
60- FS: No return.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
80.00	gmco 15g 30m 55o	0.39
70.00	go 10g 90o	0.34
0.00	200' GIP	0.00

### 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.

**36-16s-37w Wichita, KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

Job Ticket: 65217

**DST#: 5**

ATTN: Terry McLeod

Test Start: 2019.04.18 @ 21:37:00

## Tool Information

Drill Pipe:	Length: 4240.00 ft	Diameter: 3.80 inches	Volume: 59.48 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	5000.00 lb
Drill Collar:	Length: 273.00 ft	Diameter: 2.25 inches	Volume: 1.34 bbl	Weight to Pull Loose:	95000.00 lb
			<u>Total Volume: 60.82 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4508.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	87.00 ft				
Tool Length:	114.00 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			4482.00	
Shut In Tool	5.00		Fluid	4487.00	
Hydraulic tool	5.00			4492.00	
Jars	5.00			4497.00	
Safety Joint	2.00			4499.00	
Packer	5.00		Inside	4504.00	27.00 Bottom Of Top Packer
Packer	4.00			4508.00	
Stubb	1.00			4509.00	
Recorder	0.00	8522	Inside	4509.00	
Recorder	0.00	8319	Outside	4509.00	
Perforations	17.00			4526.00	
Change Over Sub	1.00			4527.00	
Drill Pipe	64.00			4591.00	
Change Over Sub	1.00			4592.00	
Bullnose	3.00			4595.00	87.00 Bottom Packers & Anchor

**Total Tool Length: 114.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources, Inc.

**36-16s-37w Wichita,KS**

4900 Woodway Dr Ste 880  
Houston, TX 77056

**S&H Unit #1-36**

Job Ticket: 65217

**DST#: 5**

ATTN: Terry McLeod

Test Start: 2019.04.18 @ 21:37:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	gmco 15g 30m 55o	0.393
70.00	go 10g 90o	0.344
0.00	200' GIP	0.000

Total Length: 150.00 ft      Total Volume: 0.737 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

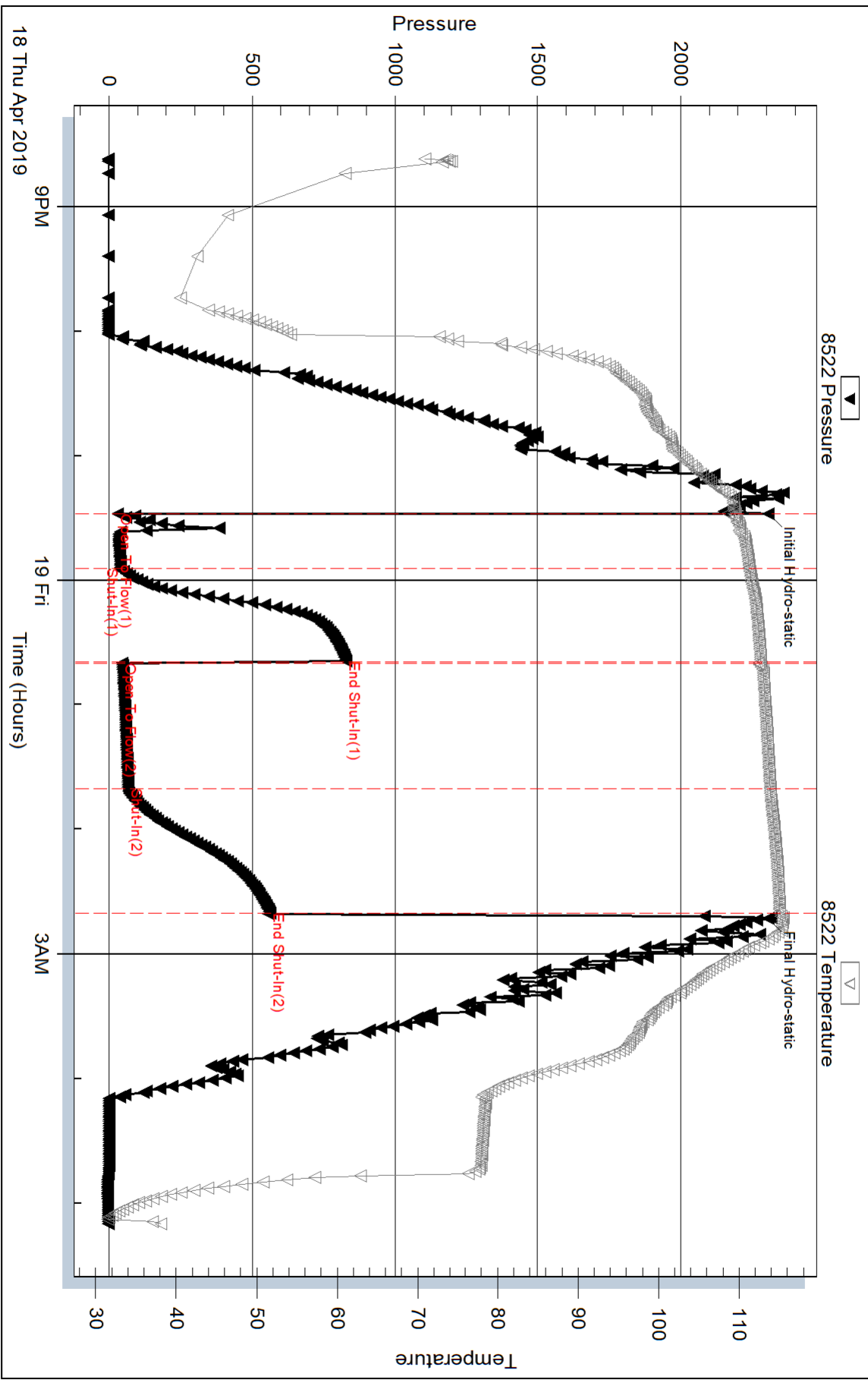
Serial #:

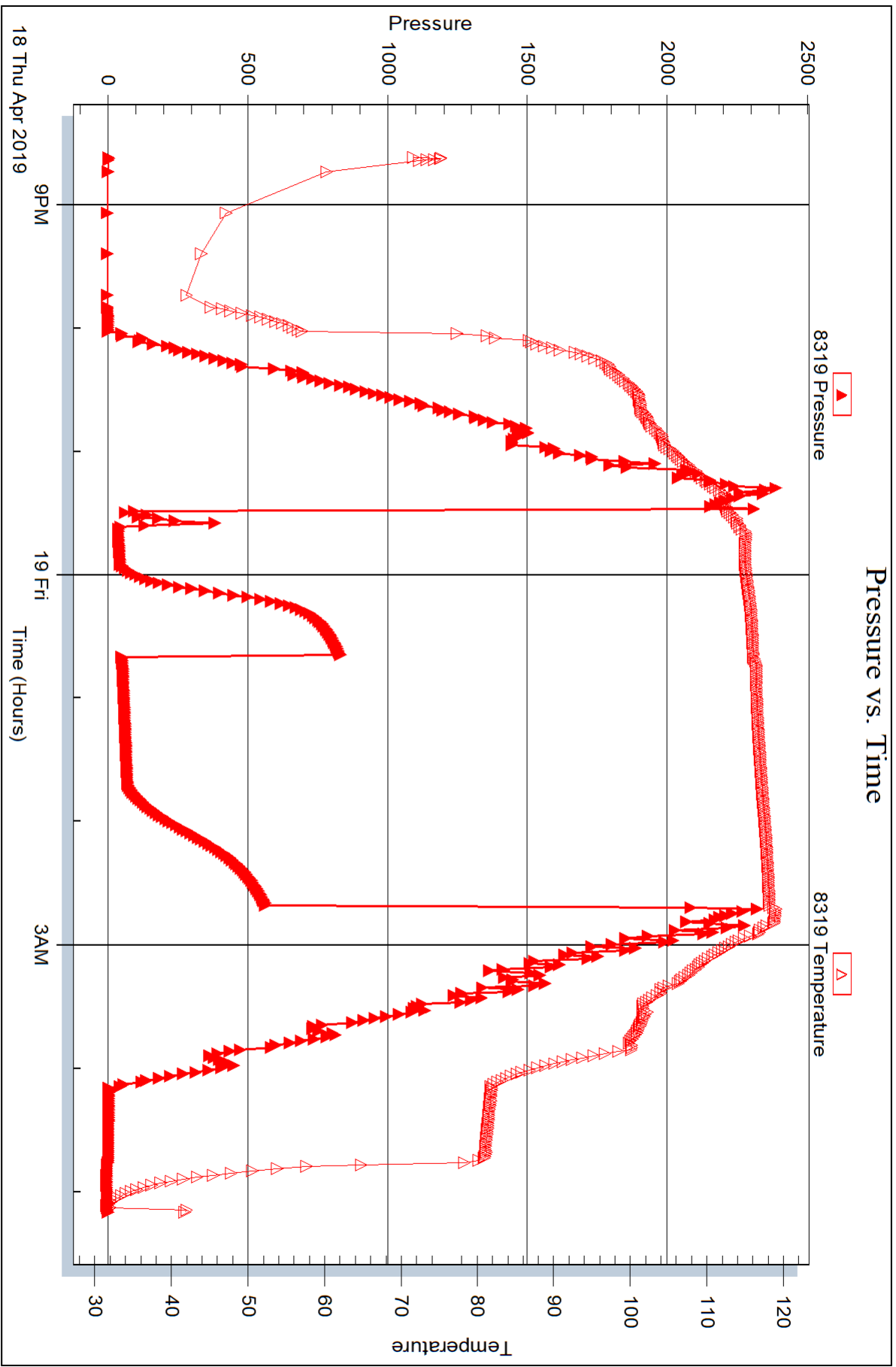
Laboratory Name:

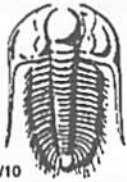
Laboratory Location:

Recovery Comments:

# Pressure vs. Time







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65213

Well Name & No. S&H Unit # 1-36 Test No. 1 Date 4/15/2019  
 Company Landmark Resources, Inc Elevation 3336 KB 3525 GL  
 Address 4900 Woodway Dr Ste 880 Houston, Tx 77056  
 Co. Rep / Geo. Terry McLeod Rig Martin #21  
 Location: Sec. 86 Twp 16S Rge. 37W Co. Wichita State KS

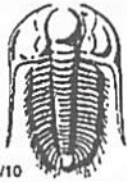
Interval Tested 4235 - 4250 Zone Tested LKC I  
 Anchor Length 15' Drill Pipe Run 3958 Mud Wt. 9.2  
 Top Packer Depth 4230 Drill Collars Run 273 Vis 57  
 Bottom Packer Depth 4235 Wt. Pipe Run Ø WL 64  
 Total Depth 4250 Chlorides 2,000 ppm System LCM 2#  
 Blow Description IF: BOB @ 14 min. Pult to 20"  
IS: No return.  
EF: BOB @ 20 min. built to 32"  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Oil</u>	<u>100</u>			
<u>700</u>	<u>SMCW</u>		<u>90</u>		<u>10</u>

Rec Total 720 BHT 119 Gravity 23 API RW 167 @ 61 °F Chlorides 53000 ppm

(A) Initial Hydrostatic <u>2101</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>1400</u>
(B) First Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1423</u>
(C) First Final Flow <u>183</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1707</u>
(D) Initial Shut-In <u>1212</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>2107</u>
(E) Second Initial Flow <u>192</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2344</u>
(F) Second Final Flow <u>340</u>	<input checked="" type="checkbox"/> Mileage <u>75</u> <del>75</del> <u>75</u>	Comments
(G) Final Shut-In <u>1197</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2095</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> EM Tool
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1950</u>
	Sub Total <u>1950</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature]  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65214**

Well Name & No. S & H Unit # 1-36 Test No. 2 Date 4/16/2019  
 Company Landmark Resources, Inc Elevation 8336 KB 3325 GL  
 Address 4900 Woodway Dr Ste 800 Houston, Tx 77056  
 Co. Rep / Geo. Terry McLeod Rig Martin 2  
 Location: Sec. \_\_\_\_\_ Twp \_\_\_\_\_ Rge. \_\_\_\_\_ Co. Wichita State Ks

Interval Tested 4282 - 4310 Zone Tested LCC K  
 Anchor Length 28' Drill Pipe Run 3990 Mud Wt. 9.3  
 Top Packer Depth 4277 - 4782 Drill Collars Run 273 Vis 64  
 Bottom Packer Depth 4310 Wt. Pipe Run Ø WL 9.6  
 Total Depth 4315 Chlorides 4000 ppm System LCM 2H

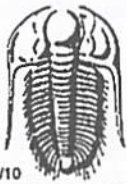
Blow Description IF BOB @ 20 sec built to 203"  
ISI No return.  
FF BOB @ 1 min. Built to 85"  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2020</u>	<u>5mew</u>		<u>98</u>	<u>2</u>	
	<u>oil spots on top</u>				
	<u>H2S 9ppm</u>				

Rec Total 2020 BHT 120 Gravity — API RW 144 @ 82 ° F Chlorides 45000 ppm

(A) Initial Hydrostatic <u>2180</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>0830</u>
(B) First Initial Flow <u>471</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0911</u>
(C) First Final Flow <u>842</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1144</u>
(D) Initial Shut-In <u>1231</u>	<input checked="" type="checkbox"/> Circ Sub <u>Not used</u> <u>50</u>	T-Pulled <u>1329</u>
(E) Second Initial Flow <u>883</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1626</u>
(F) Second Final Flow <u>1099</u>	<input checked="" type="checkbox"/> Mileage <u>7544</u>	Comments _____
(G) Final Shut-In <u>1237</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2129</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> EM Tool _____
Initial Open <u>15</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>2600</u>
	Sub Total <u>2600</u>	MP/DST Disc't _____

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65215

Well Name & No. S&H Unit # 1-36 Test No. 3 Date 4/17/2014  
 Company Landmark Resources, Inc Elevation 3336 KB 3325 GL  
 Address 4900 Woodway Dr Ste 800 Houston Tx 77056  
 Co. Rep / Geo. Terry Akrod Rig Martin 21  
 Location: Sec. 36 Twp 16 Rge. 37w Co. Wichita State KS

Interval Tested 4448-4467 Zone Tested Marmaton  
 Anchor Length 19 Drill Pipe Run 4180 Mud Wt. 9.2  
 Top Packer Depth 4443 Drill Collars Run 273 Vis 52  
 Bottom Packer Depth 4448 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4467 Chlorides 6500 ppm System LCM 2#

Blow Description IF Blow died @ 10 min  
IGF No return  
FF No blow  
FSF No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>MOD</u>			<u>100</u>	
	<u>oil spot</u>				

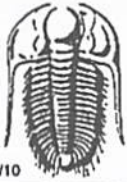
Rec Total 3 BHT 115 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2211</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>0900</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0945</u>
(C) First Final Flow <u>17</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1218</u>
(D) Initial Shut-In <u>65</u>	<input checked="" type="checkbox"/> Circ Sub <u>4/c</u>	T-Pulled <u>1448</u>
(E) Second Initial Flow <u>16</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1654</u>
(F) Second Final Flow <u>17</u>	<input checked="" type="checkbox"/> Mileage <u>7524</u> 75	Comments _____
(G) Final Shut-In <u>47</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2180</u>	<input type="checkbox"/> Straddle _____	

Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> EM Tool _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Final Flow <u>38</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Ruined Packer _____
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Accessibility _____	Sub Total <u>0</u>
	Sub Total <u>1950</u>	Total <u>1950</u>

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65216**

Well Name & No. S&H Unit #1-36 Test No. 4 Date 4/18/2014  
 Company Landmark Resources, Inc Elevation 3336 KB 3325 GL  
 Address 4900 Woodway Dr Ste 800 Houston, Tx 77056  
 Co. Rep / Geo. Terry Malwood Rig Mutan 21  
 Location: Sec. 36 Twp 16 S Rge. 37 W Co. Wichita State KS

Interval Tested 4466-4490 Zone Tested Altamont  
 Anchor Length 24 Drill Pipe Run 4150 Mud Wt. 9.2  
 Top Packer Depth 4461 Drill Collars Run 273 Vis 60  
 Bottom Packer Depth 4466 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4490 Chlorides 6500 ppm System LCM 2#

Blow Description IF Surface blow died @ 30 min.  
ISI No return.  
FF No blow  
FSI No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>mud</u>			<u>100</u>	
	<u>oil spots</u>				

Rec Total 2 BHT 113 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2282</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>1130</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0007</u>
(C) First Final Flow <u>19</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0218</u>
(D) Initial Shut-In <u>23</u>	<input checked="" type="checkbox"/> Circ Sub <u>2 1/2</u>	T-Pulled <u>0448</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0649</u>
(F) Second Final Flow <u>18</u>	<input checked="" type="checkbox"/> Mileage <u>7500</u> <u>75</u>	Comments
(G) Final Shut-In <u>21</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2172</u>	<input type="checkbox"/> Straddle	

Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> EM Tool
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Extra Copies
	<input type="checkbox"/> Accessibility	Sub Total <u>0</u>
	Sub Total <u>1950</u>	Total <u>1950</u>
		MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65217**

Well Name & No. S & H Unit # 1-36 Test No. 5 Date 4/19/2019  
 Company Landmark Resources, Inc Elevation 3336 KB 3325 GL  
 Address 4900 Woodway Dr Ste 800 Houston, Tx 77056  
 Co. Rep / Geo. Terry McLeod Rig Mudwin 21  
 Location: Sec. 36 Twp 16s Rge. 37w Co. Wichita State Ks

Interval Tested 4508-4595 Zone Tested Pawnee Ftscott Myria station  
 Anchor Length 57' Drill Pipe Run 4280 Mud Wt. 9.2  
 Top Packer Depth 4503 Drill Collars Run 273 Vis 60  
 Bottom Packer Depth 4508 Wt. Pipe Run Ø WL 8.0  
 Total Depth 4595 Chlorides 6,000 ppm System LCM 4#  
 Blow Description TF: 8" blow  
ISI: No return.  
PF: BOB @ 30 min built to 14 1/2"  
FST: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>60</u>	<u>10</u>	<u>90</u>		
<u>80</u>	<u>6100</u>	<u>15</u>	<u>55</u>		<u>30</u>
	<u>200' GDP</u>				

Rec Total 150 BHT 115 Gravity 27 API RW — @ — F Chlorides — ppm

(A) Initial Hydrostatic <u>2307</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>2115</u>
(B) First Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2737</u>
(C) First Final Flow <u>40</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2323</u>
(D) Initial Shut-In <u>230</u>	<input checked="" type="checkbox"/> Circ Sub <u>1/2</u>	T-Pulled <u>0238</u>
(E) Second Initial Flow <u>45</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0509</u>
(F) Second Final Flow <u>67</u>	<input checked="" type="checkbox"/> Mileage <u>7511 x2</u> <u>150</u>	Comments <u>Loaded tools 4/20 14:30</u>
(G) Final Shut-In <u>563</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2305</u>	<input type="checkbox"/> Straddle	
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> EM Tool
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Accessibility	Sub Total <u>0</u>
	Sub Total <u>2025</u>	Total <u>2025</u>

Approved By \_\_\_\_\_ Our Representative [Signature]  
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**HURRICANE SERVICES INC**

Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

*71730*

Customer:

LANDMARK RESOURCES INC  
4900 WOODWAY DR  
SUITE 880  
HOUSTON, TX 77056

Invoice Date: 4/10/2019  
Invoice #: 0341335  
Lease Name: S&H Unit  
Well #: 1-36 (New)  
County: Wichita  
Job Number: ICT1918

Date/Description	HRS/QTY	Rate	Total
Surface New well	0.000	0.000	0.00
Heavy Eq Mileage	55.000	3.400	187.00
Light Eq Mileage	55.000	1.700	93.50
Ton Mileage	544.000	1.275	693.60
Cement Pump 230	1.000	637.500	637.50
H-325	200.000	17.000	3,400.00

RECEIVED  
APR 23 ENT'D

**COPY**

*Pa*  
*#524580*  
*5011.60*

**Total** 5,011.60

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

**WE APPRECIATE YOUR BUSINESS!**







**CEMENT TREATMENT REPORT**

Customer:	Landmark Resources	Well:	S and H 1-36	Ticket:	ICT1951
City, State:	Houston TX	County:	Wichita Ks	Date:	4/20/2019
Field Rep:	Juan	S-T-R:	36-16-37	Service:	Cement

Downhole Information	
Hole Size:	7.875
Hole Depth:	
Casing Size:	
Casing Depth:	
Casing weight	
Depth:	
Tool / Packer:	
Depth:	
Displacement:	bbls

Slurry	
Weight:	13.8 # / sk
Water / Sk:	6 8/9 gal / sk
Yield:	1 3/7 ft <sup>3</sup> / sk
Bbls / Ft.:	0.01422
Depth:	ft
Volume:	bbls
Excess:	%
Total Slurry:	76 bbls
Total Sacks:	300 sk

Cement Blend		
Product	%	#
Class A	60.0	16920
Poz	40.0	8880
Gel	4.0	1032
Flo Seal	0.3	75
KolSeal		
PhenoSeal		
Salt		
<b>Total</b>		<b>26,907</b>

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
6:30 PM				Arrive on location					
6:35 PM				Safety meeting					
6:40 PM				Rig up equipment					
6:45 PM	4.0	200.0	44.0	Mix 60 sks @ 2520 and displace					
6:50 PM	4.0	190.0	36.0	Mix 60 sks @ 1690 and displace					
7:20 PM	4.0	190.0	19.0	Mix 60 sks @ 770 and displace					
7:40 PM	4.0	180.0	12.0	Mix 60 sks @ 330 and displace					
8:00 PM	3.5	110.0	8.0	MLx 20 sks @ 60 30 RH 20 NH					
8:30 PM				Wash up					
8:40 PM				Rig down					
8:50 PM				Depart					

CREW		UNIT	SUMMARY		
Cementer:	Dane Retzlloff	78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Jash Mosler	230	3.8 bpm	174.00 psi	119.00 bbls
Bulk #1:	John Polley	242			
Bulk #2:					