

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 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)</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	FELT 1-29
Doc ID	1354011

Tops

Name	Top	Datum
Anhydrite	2446	713
B/ Anhydrite	2464	695
Topeka	3771	-612
Heebner	4020	-861
Toronto	4038	-879
Lansing	4068	-909
C	4107	-948
D	4130	-971
E	4162	-1003
F	4184	-1025
G	4212	-1053
Muncie Creek	4251	-1105
H	4264	-1105
I	4303	-1144
J	4331	-1172
Stark Shale	4360	-1201
K	4368	-1209
L	4407	-1248
BKC	4452	-1293
Marmaton	4512	-1353
Altamont	4540	-1381
Pawnee	4589	-1430
Myrick Station	4629	-1470
Fort Scott	4641	-1482

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	FELT 1-29
Doc ID	1354011

Tops

Name	Top	Datum
Cherokee	4665	-1506
Johnson Zone	4716	-1557
Morrow Shale	4803	-1644
U Morrow Sand	4908	-1749
Missippian	4912	-1753



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S Voss RD STE 600
Houston TX 77057

ATTN: Terry McLeod

Felt #1-29

29-17s-34w Scott,KS

Start Date: 2017.04.17 @ 03:40:00

End Date: 2017.04.17 @ 11:56:05

Job Ticket #: 59460 DST #: 1

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

Printed: 2017.04.21 @ 13:56:37



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

29-17s-34w Scott,KS

1616 S Voss RD STE 600
Houston TX 77057

Felt #1-29

Job Ticket: 59460

DST#: 1

ATTN: Terry McLeod

Test Start: 2017.04.17 @ 03:40:00

GENERAL INFORMATION:

Formation: **LKC I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:19:15

Time Test Ended: 11:56:05

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4308.00 ft (KB) To 4320.00 ft (KB) (TVD)

Reference Elevations: 3160.00 ft (KB)

Total Depth: 4320.00 ft (KB) (TVD)

3150.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8289

Inside

Press@RunDepth: 16.71 psig @ 4317.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.17

End Date:

2017.04.17

Last Calib.: 2017.04.17

Start Time: 03:40:02

End Time:

11:56:04

Time On Btm: 2017.04.17 @ 07:19:00

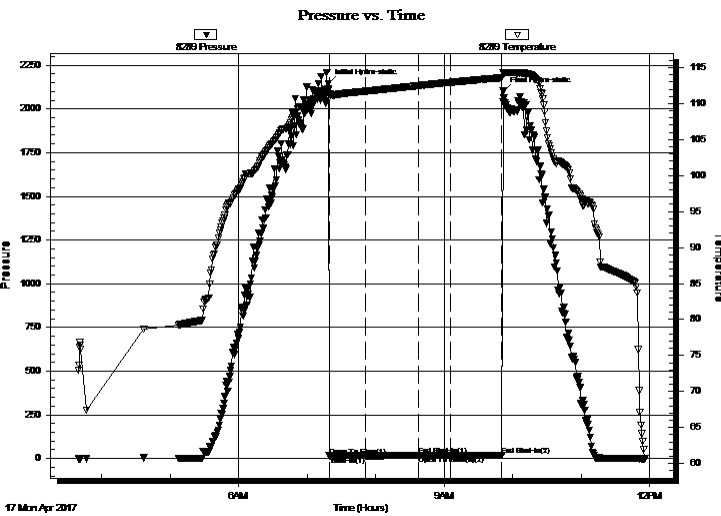
Time Off Btm: 2017.04.17 @ 09:51:35

TEST COMMENT: IF: Weak surface blow, died 15 min.

IS: No blow back

FF: No blow

FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2144.86	111.88	Initial Hydro-static
1	15.45	110.87	Open To Flow (1)
33	14.78	111.71	Shut-In(1)
79	17.53	112.49	End Shut-In(1)
79	17.49	112.49	Open To Flow (2)
107	16.71	112.94	Shut-In(2)
152	16.78	113.58	End Shut-In(2)
153	2101.07	114.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

29-17s-34w Scott,KS

1616 S Voss RD STE 600
Houston TX 77057

Felt #1-29

Job Ticket: 59460

DST#: 1

ATTN: Terry McLeod

Test Start: 2017.04.17 @ 03:40:00

Tool Information

Drill Pipe:	Length: 4046.00 ft	Diameter: 3.80 inches	Volume: 56.75 bbl	Tool Weight: 2000.00 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: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 57.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4308.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	40.00 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			4281.00	
Shut In Tool	5.00			4286.00	
Hydraulic tool	5.00			4291.00	
Jars	5.00			4296.00	
Safety Joint	3.00			4299.00	
Packer	5.00			4304.00	28.00 Bottom Of Top Packer
Packer	4.00			4308.00	
Stubb	1.00			4309.00	
Perforations	3.00			4312.00	
Perforations	5.00			4317.00	
Recorder	0.00	8289	Inside	4317.00	
Recorder	0.00	6672	Outside	4317.00	
Bullnose	3.00			4320.00	12.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

29-17s-34w Scott,KS

1616 S Voss RD STE 600
Houston TX 77057

Felt #1-29

Job Ticket: 59460

DST#: 1

ATTN: Terry McLeod

Test Start: 2017.04.17 @ 03:40:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

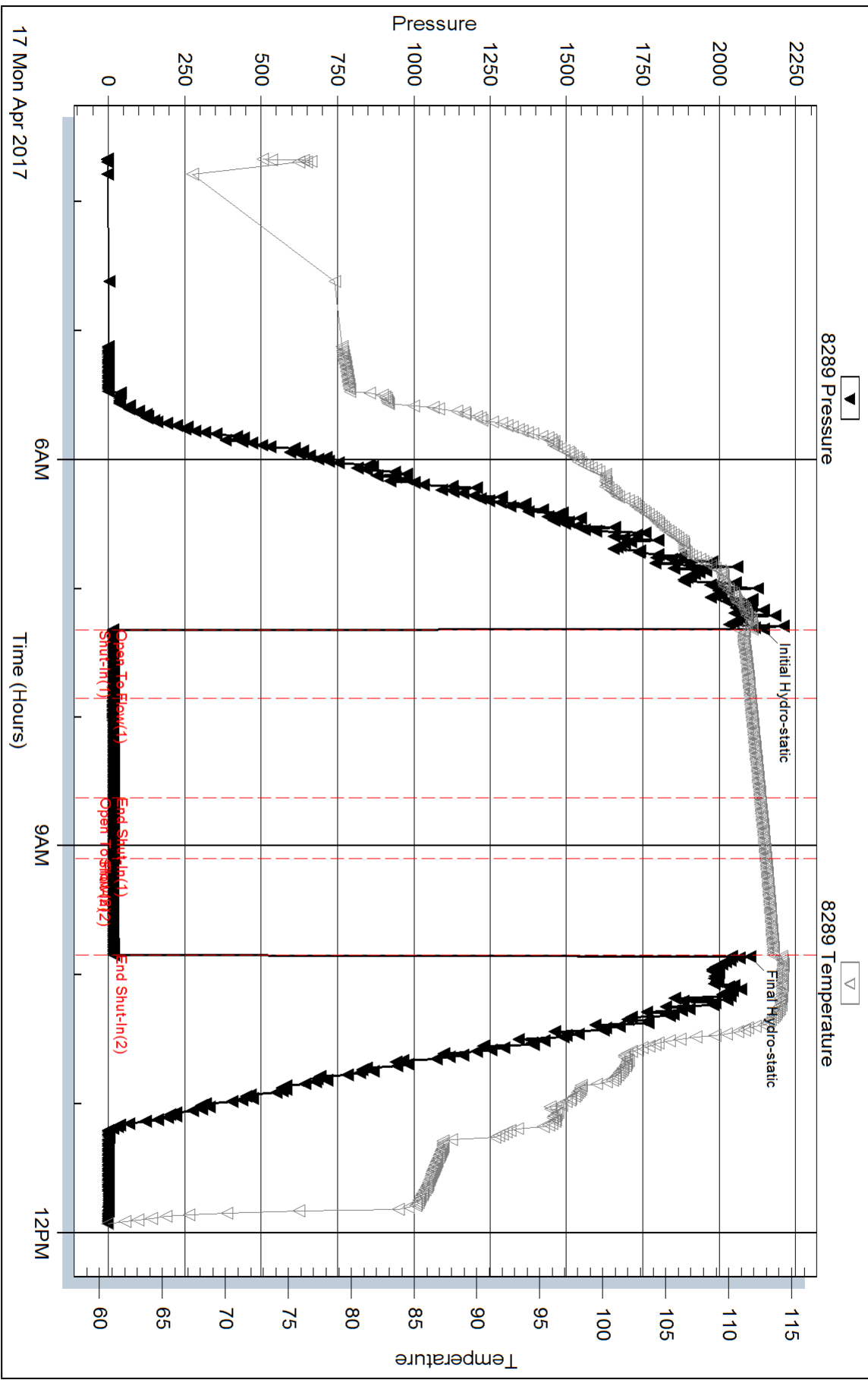
Serial #:

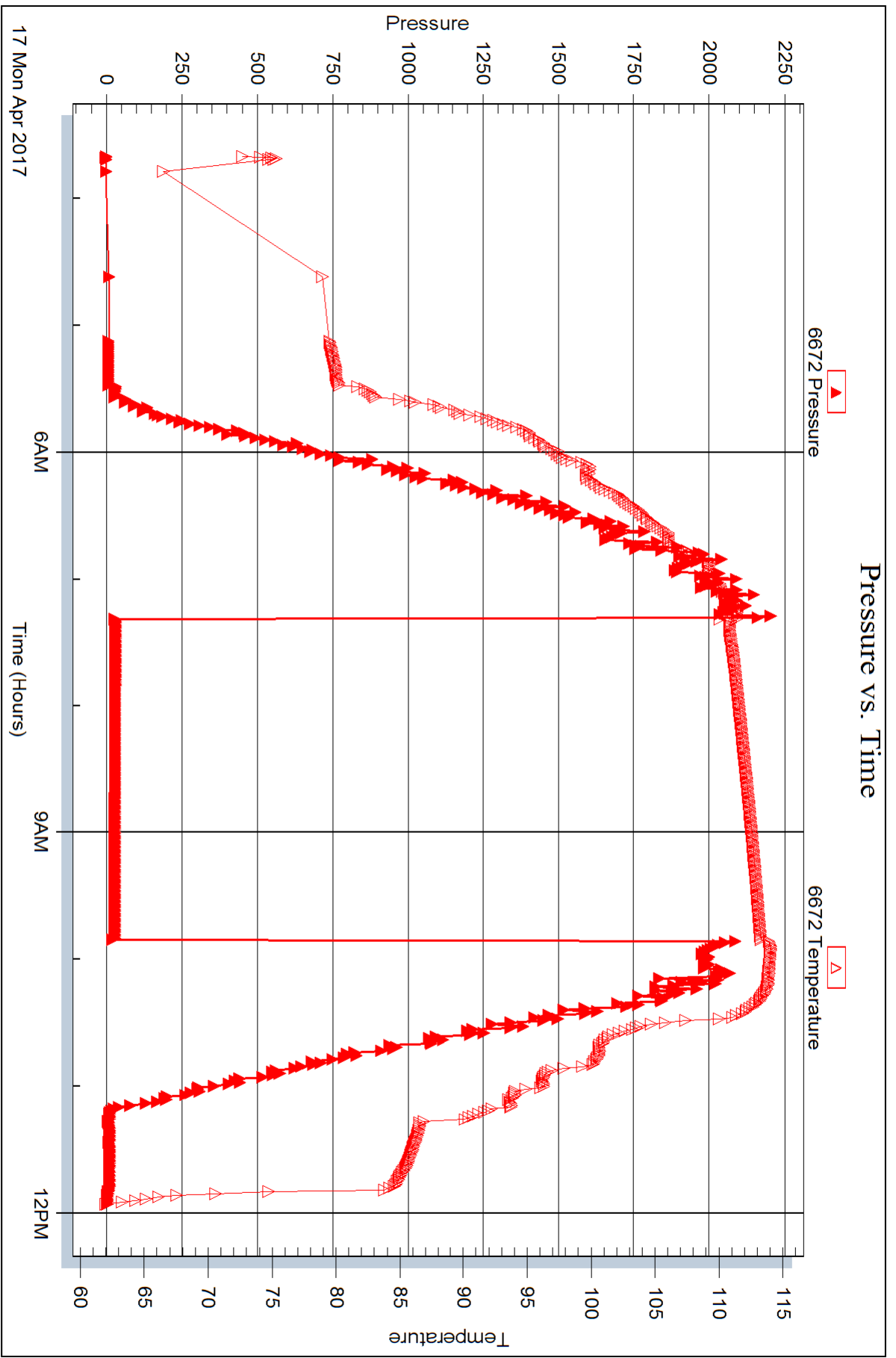
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S Voss RD STE 600
Houston TX 77057

ATTN: Terry McLeod

Felt #1-29

29-17s-34w Scott,KS

Start Date: 2017.04.18 @ 08:00:00

End Date: 2017.04.18 @ 14:51:54

Job Ticket #: 59461 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.04.21 @ 13:56:16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

29-17s-34w Scott,KS

1616 S Voss RD STE 600
Houston TX 77057

Felt #1-29

Job Ticket: 59461

DST#: 2

ATTN: Terry McLeod

Test Start: 2017.04.18 @ 08:00:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:40:20

Time Test Ended: 14:51:54

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4517.00 ft (KB) To 4525.00 ft (KB) (TVD)

Reference Elevations: 3160.00 ft (KB)

Total Depth: 4535.00 ft (KB) (TVD)

3150.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8289

Inside

Press@RunDepth: 129.42 psig @ 4532.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.18

End Date:

2017.04.18

Last Calib.: 1899.12.30

Start Time:

08:00:02

End Time:

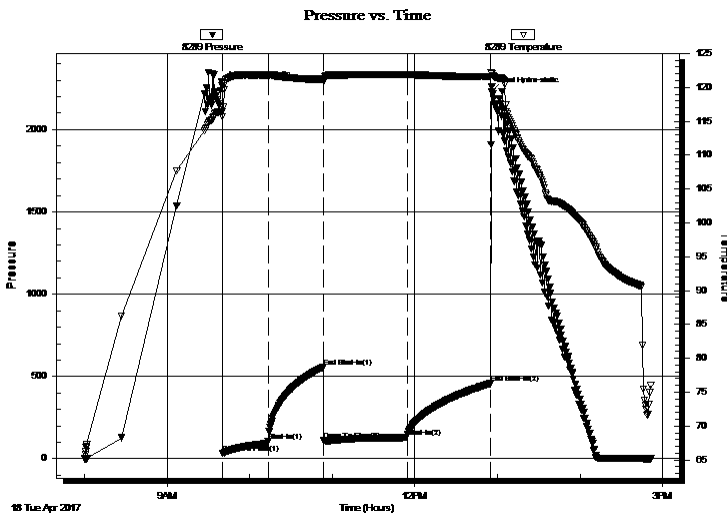
14:51:55

Time On Btm: 2017.04.18 @ 09:39:50

Time Off Btm: 2017.04.18 @ 12:55:50

TEST COMMENT: IF: 5 1/2" in 30 min., strong building blow
IS: No blow back
FF: 1" in 25 min., steady dying blow
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2267.92	116.44	Initial Hydro-static
1	32.27	115.67	Open To Flow (1)
34	108.17	121.79	Shut-In(1)
74	557.95	121.16	End Shut-In(1)
74	114.22	120.96	Open To Flow (2)
135	129.42	121.89	Shut-In(2)
195	457.60	121.57	End Shut-In(2)
196	2230.98	121.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	oil spotted water	1.27

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

29-17s-34w Scott,KS

1616 S Voss RD STE 600
Houston TX 77057

Felt #1-29

Job Ticket: 59461

DST#: 2

ATTN: Terry McLeod

Test Start: 2017.04.18 @ 08:00:00

Tool Information

Drill Pipe:	Length: 4265.00 ft	Diameter: 3.80 inches	Volume: 59.83 bbl	Tool Weight: 2000.00 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: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 61.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	4517.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	46.00 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			4490.00	
Shut In Tool	5.00			4495.00	
Hydraulic tool	5.00			4500.00	
Jars	5.00			4505.00	
Safety Joint	3.00			4508.00	
Packer	5.00			4513.00	28.00 Bottom Of Top Packer
Packer	4.00			4517.00	
Stubb	1.00			4518.00	
Perforations	1.00			4519.00	
Perforations	13.00			4532.00	
Recorder	0.00	8289	Inside	4532.00	
Recorder	0.00	6672	Outside	4532.00	
Bullnose	3.00			4535.00	18.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

29-17s-34w Scott,KS

1616 S Voss RD STE 600
Houston TX 77057

Felt #1-29

Job Ticket: 59461

DST#: 2

ATTN: Terry McLeod

Test Start: 2017.04.18 @ 08:00:00

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:

32000 ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	oil spotted w ater	1.266

Total Length: 250.00 ft Total Volume: 1.266 bbl

Num Fluid Samples: 0

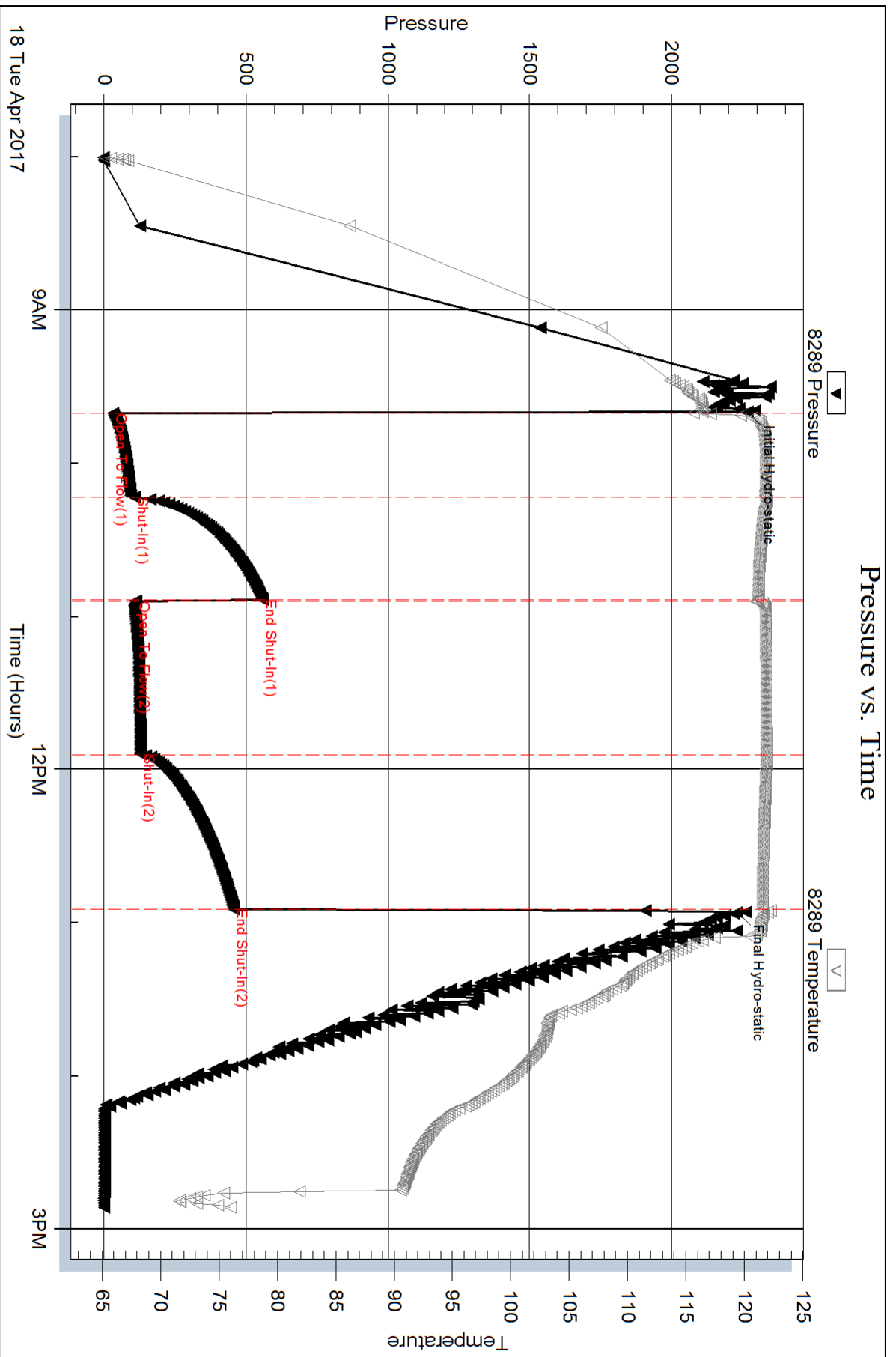
Num Gas Bombs: 0

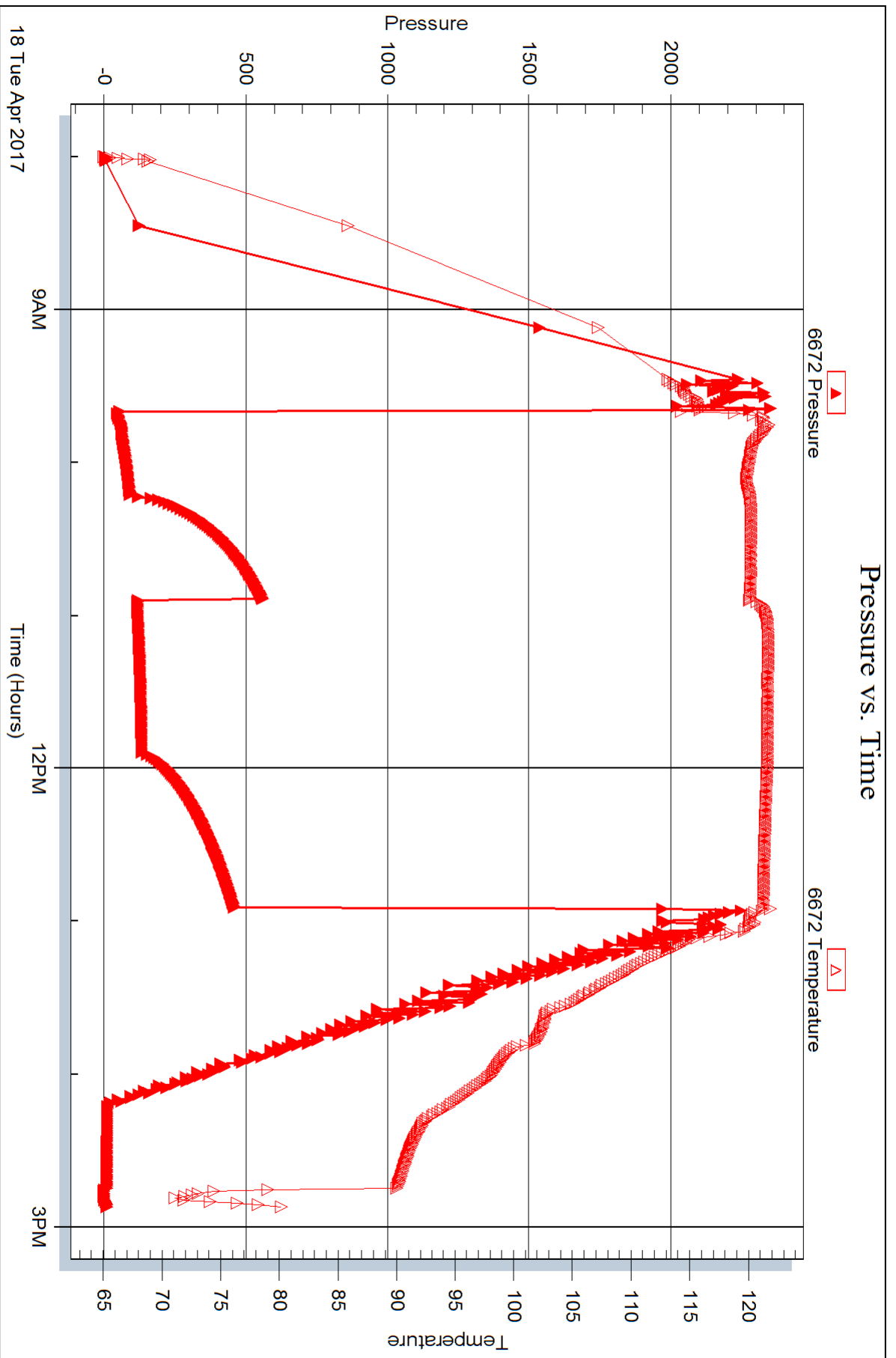
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.170@86F=32000







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc.**

1616 S Voss RD STE 600
Houston TX 77057

ATTN: Terry McLeod

Felt #1-29

29-17s-34w Scott,KS

Start Date: 2017.04.18 @ 21:20:00

End Date: 2017.04.19 @ 03:50:15

Job Ticket #: 59462 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.04.21 @ 13:55:53



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

29-17s-34w Scott,KS

1616 S Voss RD STE 600
Houston TX 77057

Felt #1-29

Job Ticket: 59462

DST#: 3

ATTN: Terry McLeod

Test Start: 2017.04.18 @ 21:20:00

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:45:45

Time Test Ended: 03:50:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4537.00 ft (KB) To 4550.00 ft (KB) (TVD)

Reference Elevations: 3160.00 ft (KB)

Total Depth: 4550.00 ft (KB) (TVD)

3150.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8289

Inside

Press@RunDepth: 35.82 psig @ 4547.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.18

End Date:

2017.04.19

Last Calib.: 1899.12.30

Start Time: 21:20:02

End Time:

03:50:15

Time On Btm: 2017.04.18 @ 23:45:25

Time Off Btm: 2017.04.19 @ 01:45:09

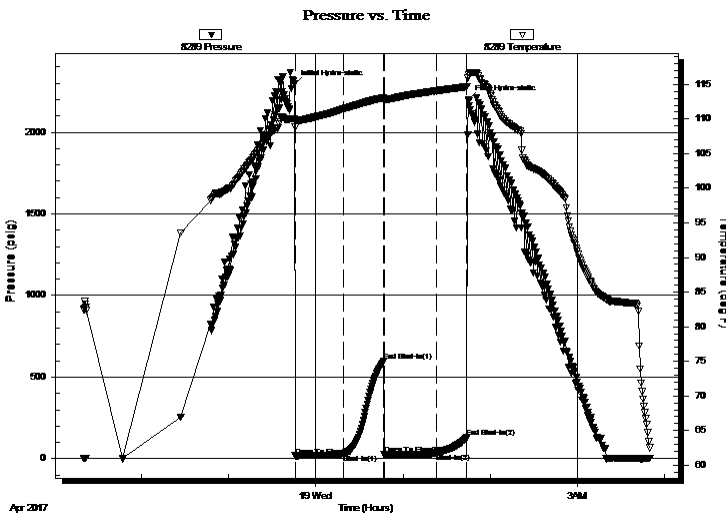
TEST COMMENT: IF: .5" in 15 min., died in 25 min.

IS: No blow back

FF: No blow

FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2293.06	110.10	Initial Hydro-static
1	17.51	108.81	Open To Flow (1)
34	27.19	111.44	Shut-In(1)
62	596.70	113.08	End Shut-In(1)
62	24.66	112.76	Open To Flow (2)
98	35.82	114.08	Shut-In(2)
119	128.17	114.68	End Shut-In(2)
120	2198.84	116.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	oil spotted mud	0.02

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources Inc.

29-17s-34w Scott, KS

1616 S Voss RD STE 600
Houston TX 77057

Felt #1-29

Job Ticket: 59462

DST#: 3

ATTN: Terry McLeod

Test Start: 2017.04.18 @ 21:20:00

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:45:45

Time Test Ended: 03:50:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 4537.00 ft (KB) To 4550.00 ft (KB) (TVD)

Reference Elevations: 3160.00 ft (KB)

Total Depth: 4550.00 ft (KB) (TVD)

3150.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6672 Outside

Press@RunDepth: psig @ 4547.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.18 End Date: 2017.04.19

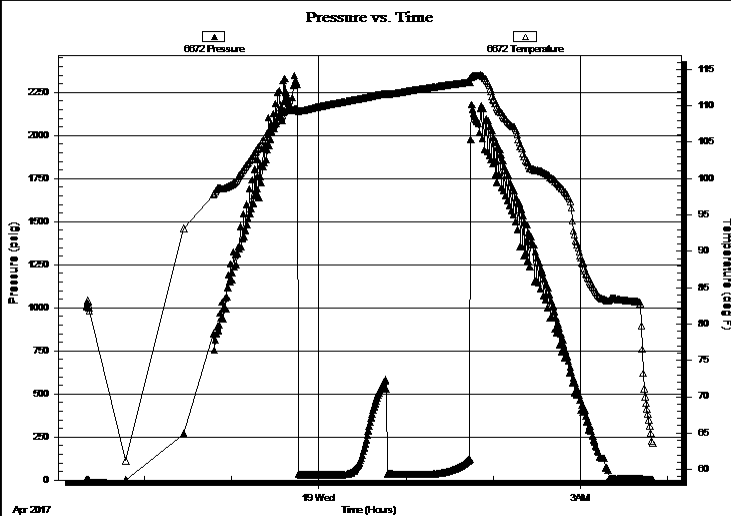
Last Calib.: 1899.12.30

Start Time: 21:20:02 End Time: 03:50:34

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: .5" in 15 min., died in 25 min.
IS: No blow back
FF: No blow
FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	oil spotted mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc.

29-17s-34w Scott,KS

1616 S Voss RD STE 600
Houston TX 77057

Felt #1-29

Job Ticket: 59462

DST#: 3

ATTN: Terry McLeod

Test Start: 2017.04.18 @ 21:20:00

Tool Information

Drill Pipe:	Length: 4267.00 ft	Diameter: 3.80 inches	Volume: 59.85 bbl	Tool Weight: 2000.00 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: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 61.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4537.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4510.00	
Shut In Tool	5.00			4515.00	
Hydraulic tool	5.00			4520.00	
Jars	5.00			4525.00	
Safety Joint	3.00			4528.00	
Packer	5.00			4533.00	28.00 Bottom Of Top Packer
Packer	4.00			4537.00	
Stubb	1.00			4538.00	
Perforations	1.00			4539.00	
Perforations	8.00			4547.00	
Recorder	0.00	8289	Inside	4547.00	
Recorder	0.00	6672	Outside	4547.00	
Bullnose	3.00			4550.00	13.00 Bottom Packers & Anchor

Total Tool Length: 41.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources Inc.

29-17s-34w Scott,KS

1616 S Voss RD STE 600
Houston TX 77057

Felt #1-29

Job Ticket: 59462

DST#: 3

ATTN: Terry McLeod

Test Start: 2017.04.18 @ 21:20:00

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: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	oil spotted mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

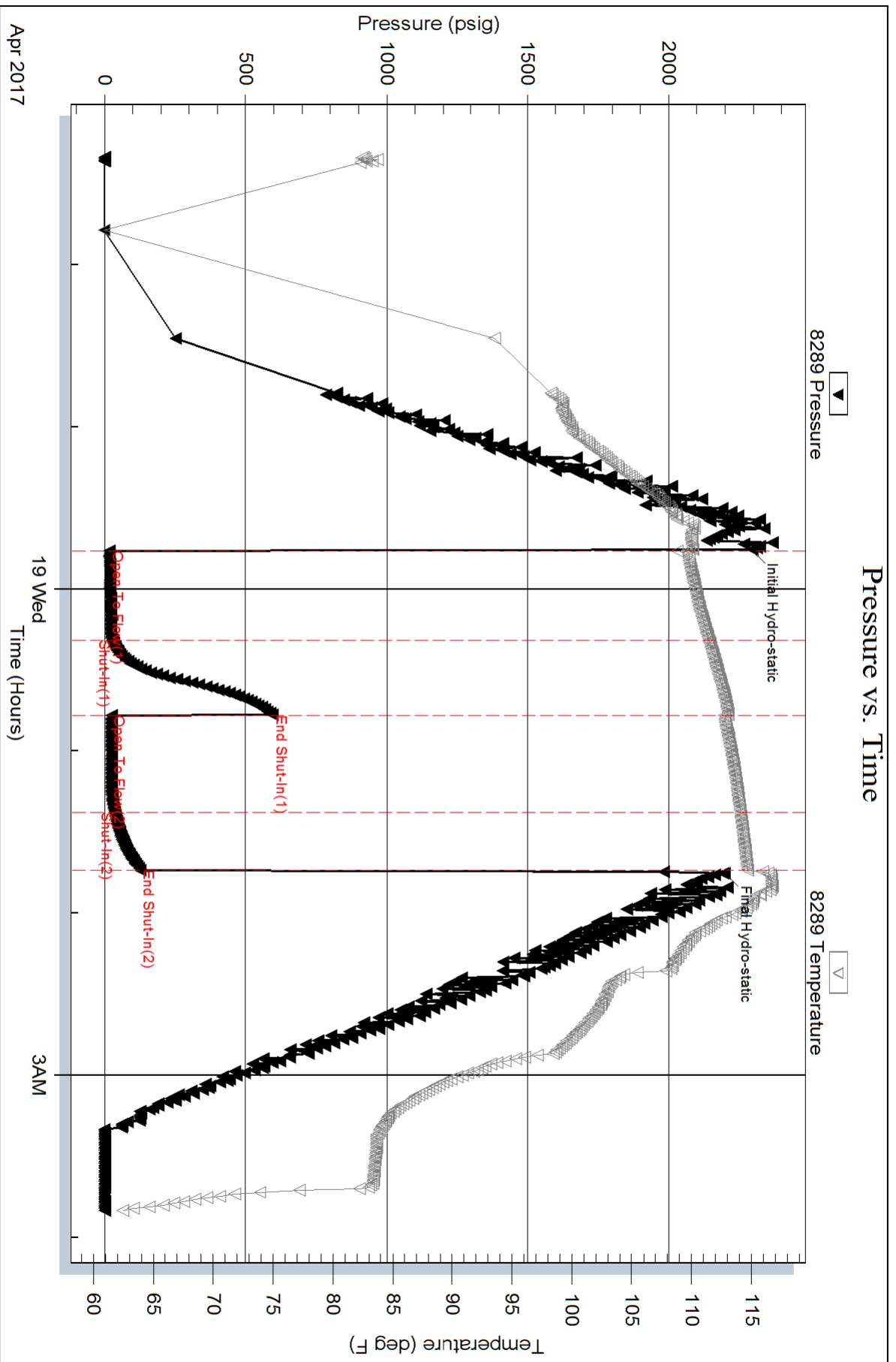
Serial #:

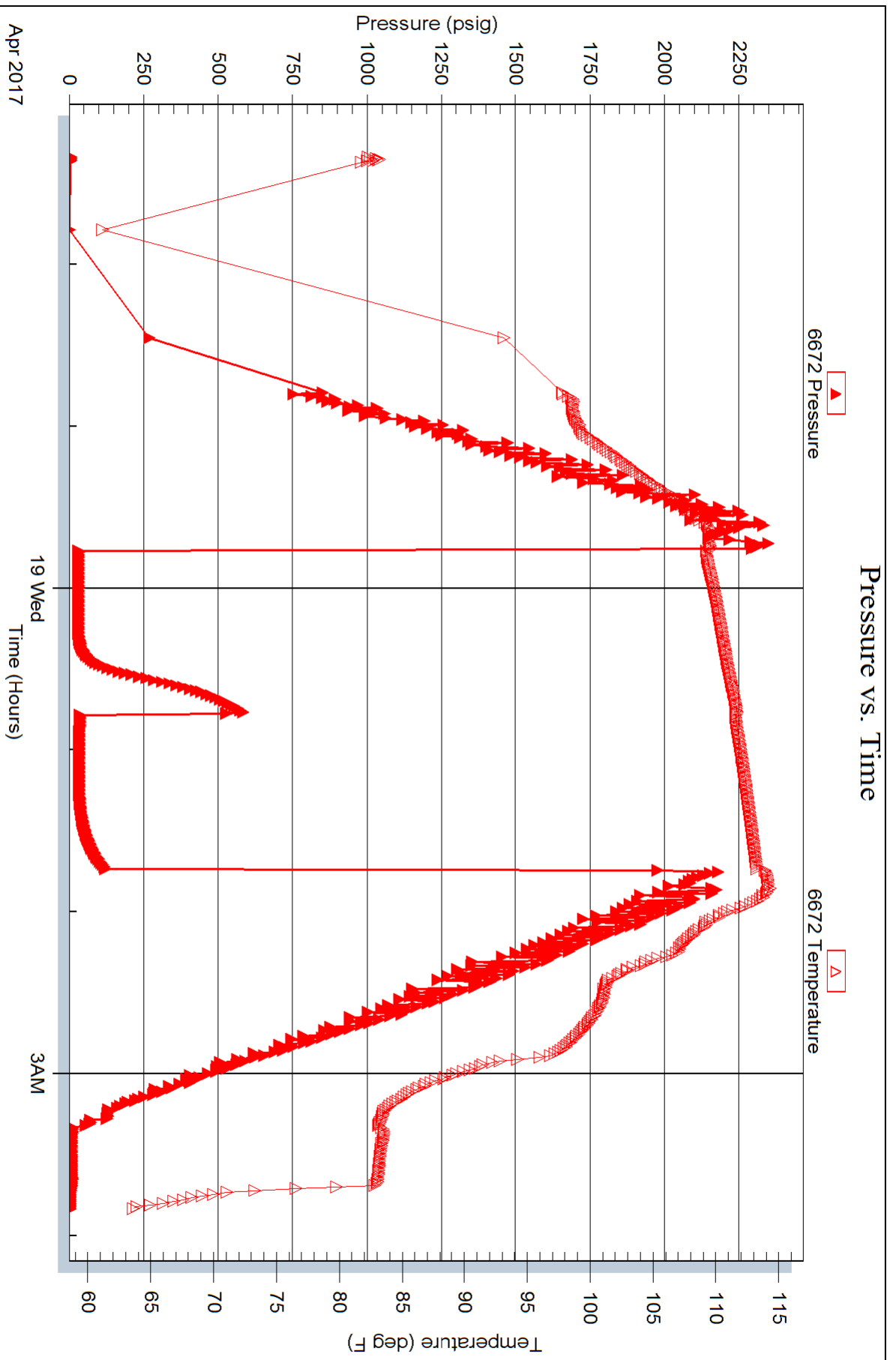
Laboratory Name:

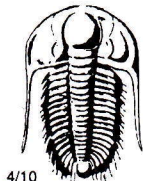
Laboratory Location:

Recovery Comments:

Pressure vs. Time







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59460

4/10

Well Name & No. Felt 129 Test No. 1 Date 4-17-17
 Company Landmark Resources Inc. Elevation 3160 KB 3150 GL
 Address 1616 S Voss RD STE 600 HOUSTON, TX 77057
 Co. Rep / Geo. Terry McLeod Rig Murphy #21
 Location: Sec. 29 Twp. 17 Rge. 34 Co. Scott State KS

Interval Tested 4308-4320 Zone Tested Lansing - I
 Anchor Length 12' Drill Pipe Run 4046 Mud Wt. 9.3
 Top Packer Depth 4303 Drill Collars Run 246 Vis 61
 Bottom Packer Depth 4308 Wt. Pipe Run N.A. WL 6.4
 Total Depth 4320 Chlorides 3000 ppm System LCM 2#

Blow Description IF: Weak surface blow, died 15 min.
IST: No blow back

FP: No blow

FST: No blow back

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

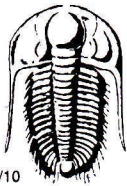
Rec Total 5' BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2144 Test 1150 T-On Location 0300
 (B) First Initial Flow 15 Jars 250 T-Started 0430
 (C) First Final Flow 15 Safety Joint 75 T-Open 0720
 (D) Initial Shut-In 18 Circ Sub _____ T-Pulled 0950
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 1130
 (F) Second Final Flow 17 Mileage x 30 22.50 Comments Sett on @ 0340
 (G) Final Shut-In 17 Sampler _____
 (H) Final Hydrostatic 2101 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 1497.50
 Final Flow 30 Day Standby _____ Total _____
 Final Shut-In 45 Accessibility _____ MP/DST Disc't _____
 Sub Total 1497.50

Approved By Terry McLeod Our Representative Chris Hegran

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. 59461

4/10

Well Name & No. Felt 1-29 Test No. 2 Date 4-18-17
 Company Landmark Resources, Inc Elevation 3160 KB 3150 GL
 Address 1616 S Joss RD STE 600 Houston, TX 77057
 Co. Rep / Geo. Terry McLean Rig Murfin #21
 Location: Sec. 29 Twp. 17 Rge. 34 Co. Scott State KS

Interval Tested 4517-4535 Zone Tested Permian
 Anchor Length 18' Drill Pipe Run 4265 Mud Wt. 9.3
 Top Packer Depth 4512 Drill Collars Run 246 Vis 67
 Bottom Packer Depth 4517 Wt. Pipe Run N.A. WL 7.2
 Total Depth 4535 Chlorides 3300 ppm System LCM 3#

Blow Description IF: 5.5 inches in 30 min., strong building blow
ISL: No blow back
FP: 1 inch 25 min, steady drilling blow
PSL: No blow back

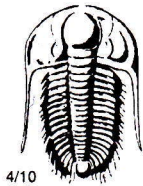
Rec	Feet of	%gas	%oil	%water	%mud
<u>550</u>	<u>oil spotted water</u>	<u>spot</u>	<u>100</u>	<u>0</u>	<u>0</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 250 BHT 122 Gravity _____ API RW .170 @ 86 °F Chlorides 32,000 ppm

(A) Initial Hydrostatic <u>2267</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0700</u>
(B) First Initial Flow <u>32</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0800</u>
(C) First Final Flow <u>108</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0940</u>
(D) Initial Shut-In <u>558</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1255</u>
(E) Second Initial Flow <u>114</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____
(F) Second Final Flow <u>129</u>	<input checked="" type="checkbox"/> Mileage <u>x 30</u> 22.50	Comments <u>Est. on @ 0800</u>
(G) Final Shut-In <u>458</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2231</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input checked="" type="checkbox"/> Shale Packer <u>x 1.0</u> 250	<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>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1747.50</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1747.50</u>	

Approved By Jay L. M. [Signature] Our Representative [Signature] Chris Hagan

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. **59462**

4/10

Well Name & No. Felt 1-29 Test No. 3 Date 4-18-17
 Company Landmark Resources, Inc Elevation 3160 KB 3150 GL
 Address 1616 S Boss RD STE 600 Houston, TX 77057
 Co. Rep / Geo. Terry McLean Rig Multilin 21
 Location: Sec. 29 Twp. 17 Rge. 34 Co. SECT State KS

Interval Tested 4537-4550 Zone Tested Altamont
 Anchor Length 13' Drill Pipe Run 4267 Mud Wt. 9.3
 Top Packer Depth 4532 Drill Collars Run 246 Vis 61
 Bottom Packer Depth 4537 Wt. Pipe Run N.A. WL 8.0
 Total Depth 4550 Chlorides 4000 ppm System LCM 2#

Blow Description IF: 2.5 inches in 15 min, dried 25 min
1ST: No blow back
PF: No blow
1ST: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>S</u>	<u>oil spotted mud</u>	<u>Spot</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 S BHT 115 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2293</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>2100</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>2200</u>
(C) First Final Flow <u>27</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2350</u>
(D) Initial Shut-In <u>597</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0400 0150</u>
(E) Second Initial Flow <u>25</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0400</u>
(F) Second Final Flow <u>36</u>	<input checked="" type="checkbox"/> Mileage <u>x30</u> <u>22.50</u>	Comments <u>Bot on @ 2120</u>
(G) Final Shut-In <u>128</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2199</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>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1497.50</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1497.50</u>	

Approved By Terry McLean Our Representative Chris Heyman

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.



Remit To: BJ Services LLC
P.O. Box 733585
DALLAS, TX 75373-3585

PA.

51472

RECEIVED
MAY 11 2017

INVOICE

Invoice Number: 154465
Invoice Date: Apr 15, 2017
Page: 1

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

Federal Tax I.D.#: 81-1373543

Bill To:

LANDMARK RESOURCES INC
1616 S. VOSS
SUITE 600
HOUSTON, TX 77057-1264

7/750

Customer ID	Field Ticket #	Payment Terms	
LANDMARK	LIB1704121734	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS101	Liberal	Apr 12, 2017	5/15/17

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	FELT 1-29		
1.00	CEMENT SERVICE	Pump Casing Cement 0-500	1,512.25	1,512.25
191.00	CEMENT SERVICE	PHDL	2.48	473.68
346.00	CEMENT SERVICE	DRYG	2.75	951.50
40.00	CEMENT SERVICE	MILV	4.40	176.00
40.00	CEMENT SERVICE	MIHV	7.70	308.00
175.00	CEMENT MATERIALS	Class A Common	17.90	3,132.50
494.00	CEMENT MATERIALS	Calcium Chloride	1.10	543.40
329.00	CEMENT MATERIALS	CGEL	1.05	345.45
1.00	JOB DISCOUNT	Job Discount if paid within agreed terms - Cement Services	1,197.50	-1,197.50
1.00	JOB DISCOUNT	Job Discount if paid within agreed terms - Materials	1,407.47	-1,407.47
1.00	E-PEPPIN.JAMES	SERVICE SUPERVISOR		
1.00	E-CORONA.VICTOR	OPERATOR ASSISTANT		
1.00	E-TORRES JR.REYES	MECHANIC		
1.00	E-IBARRA.CARLOS	EQUIPMENT OPERATOR		

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

May 15, 2017

1 1/2% CHARGED
THEREAFTER.

Subtotal	4,837.81
Sales Tax	222.18
Total Invoice Amount	5,059.99
Payment/Credit Applied	
TOTAL	5,059.99

COPY



Remit to:
 BJ Services LLC
 P.O. Box 733585
 Dallas, TX 75373-3585

Cementing Services
 Field Ticket
 TAX ID 81-1373543

Printed on 4/12/2017 at 6:08 PM

Field Ticket Number: LIB1704121734 Field Ticket Date: Wednesday, April 12, 2017

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

Job Name: 01 Surface
Well Location: Scott, KS
Well Name: Felt
Well Number: 1-29
Well Type: New Well
Rig Number: Murfin # 21
Shipping Point: Liberal, KS
Sales Office: Mid Con

PERSONEL		EQUIPMENT	
James Peopinn	Jaime Torres	903-4/501-5	
Victor Corona-marta	Carlos Ibarra	868-4/642-5	

SERVICES - SERVICES - SERVICES							
Description	QTY	UOM	Unit Amt	Gross Amt	Unit Net	Discount	Net Amount
PUMP, CASING CEMENT 0-500 FT	1.00	min. 4 hr	1,512.25	1512.25	982.96	35.0%	982.96
PHDL	191.00	per cu. Ft.	2.48	473.68	1.61	35.0%	307.89
DRYG	346.00	ton-mile	2.75	951.50	1.79	35.0%	618.48
MILV	40.00	per mile	4.40	176.00	2.86	35.0%	114.40
MIHV	40.00	per mile	7.70	308.00	5.01	35.0%	200.20

FLOAT EQUIPMENT -- FLOAT EQUIPMENT -- FLOAT EQUIPMENT

MATERIALS - MATERIALS - MATERIALS							
Description	QTY	UOM	Unit Amt	Gross Amt	Unit Net	Discount	Net Amount
--	5.00	bbl	0.00	0.00	0.00	35.0%	0.00
CCAC	175.00	sack	17.90	3,132.50	11.64	35.0%	2,036.13
CA-100	494.00	pound	1.10	543.40	0.72	35.0%	353.21
CGEL	329.00	pound	1.05	345.45	0.68	35.0%	224.54

ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS

Additional hours, in excess of set hours		per hour	440.00	0.00	220.00	50.0%	0.00
--	--	----------	--------	------	--------	-------	------

	Gross	Discount	Final
Services Total	3,421.43	1,197.50	2,223.93
Equipment Total	0.00	0.00	0.00
Materials Total	4,021.35	1,407.47	2,613.88
Additional Items	0.00	0.00	0.00
Final Total	7,442.78	2,604.97	4,837.81

BJ Rep: _____
 Customer Agent: _____

This output does NOT include taxes. Applicable sales tax will be billed on the final invoice.
 Customer hereby acknowledges receipt of the materials and services described above and on the attached documents.
 I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.

X _____
 Customer Signature

Field Ticket Total (USD): **\$4,837.81**



Remit To: BJ Services LLC
P.O. Box 733585
DALLAS, TX 75373-3585

INVOICE

Invoice Number: 154556

Invoice Date: Apr 22, 2017

Page: 1

Voice: (832) 482-3742

Fax: (832) 482-3738

Federal Tax I.D.#: 81-1373543

Bill To:

LANDMARK RESOURCES INC
1616 S. VOSS
SUITE 600
HOUSTON, TX 77057-1264

Customer ID	Field Ticket #	Payment Terms	
LANDMARK	LIB1704211400	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS103	Liberal	Apr 21, 2017	5/22/17

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Felt 1-29		
1.00	CEMENT SERVICE	Plug To Abandon Well Plugging	1,250.00	1,250.00
1.00	CEMENT SERVICE	CMLP	275.00	275.00
312.00	CEMENT SERVICE	PHDL	2.48	773.76
651.00	CEMENT SERVICE	DRYG	2.75	1,790.25
50.00	CEMENT SERVICE	MILV	4.40	220.00
50.00	CEMENT SERVICE	MIHV	7.70	385.00
290.00	CEMENT MATERIALS	CB-APA-40604	18.92	5,486.80
73.00	CEMENT MATERIALS	CLC-CPF	2.97	216.81
1.00	JOB DISCOUNT	Job Discount if paid within agreed terms - Cement Services	1,408.20	-1,408.20
1.00	JOB DISCOUNT	Job Discount if paid within agreed terms - Materials	1,711.08	-1,711.08
1.00	E-PEPPIN.JAMES	SERVICE SUPERVISOR		
1.00	E-TORRES.JAIME	EQUIPMENT OPERATOR		
1.00	E-BURCIAGA.GERARDO	OPERATOR ASSISTANT		

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

May 22, 2017

1 1/2% CHARGED
THEREAFTER.

Subtotal	7,278.34
Sales Tax	339.37
Total Invoice Amount	7,617.71
Payment/Credit Applied	
TOTAL	7,617.71

COPY



**Cementing Services
Field Ticket**

Printed on 4/21/2017 at 2:09 PM

Remit to:
BJ Services LLC
P.O. Box 733585
Dallas, TX 75373-3585

TAX-ID 81-1373543

Field Ticket Number: Lib1704211400	Field Ticket Date:	Friday, April 21, 2017
------------------------------------	--------------------	------------------------

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

Job Name: 03 Plug Well Location: Scott, KS Well Name: Felt Well Number: 1-29 Well Type: New Well Rig Number: Murfin # 21 Shipping Point: Liberal, KS Sales Office: Mid Con	1 ST PLUG@ 2470 2 rd PLUG@ 1400 3 RD PLUG@ 700 4 TH PLUG@ 330 Rate Hole Mouse Hole
---	---

PERSONEL		EQUIPMENT	
James Peppin	Gerardo Burciaga	994-4/550-5	956-4 / 841-5
Jaime Torres			

SERVICES - SERVICES - SERVICES

Description	QTY	UOM	Unit Amt	Gross Amt	Unit Net	Discount	Net Amount
PLUGGING, ABANDON WELL PLUGGING	1.00	min. 4 hr	1,250.00	1250.00	875.00	30.0%	875.00
CMLP	1.00	per day	275.00	275.00	192.50	30.0%	192.50
PHDL	312.00	per cu. Ft.	2.48	773.76	1.74	30.0%	541.83
DRYG	651.00	ton-mile	2.75	1790.25	1.93	30.0%	1,253.18
MILV	50.00	per mile	4.40	220.00	3.08	30.0%	154.00
MIHV	50.00	per mile	7.70	385.00	5.39	30.0%	269.50

FLOAT EQUIPMENT - FLOAT EQUIPMENT - FLOAT EQUIPMENT

MATERIALS - MATERIALS - MATERIALS

CB-APA-40604	290.00	sack	18.92	5,486.80	13.24	30.0%	3,840.76
CLC-CPF	73.00	pound	2.97	216.81	2.08	30.0%	151.77

ADDITIONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS

Additional hours, in excess of set hours		per hour	440.00	0.00	308.00	30.0%	0.00
--	--	----------	--------	------	--------	-------	------

	Gross	Discount	Final
Services Total	4,694.01	1,408.20	3,285.81
Equipment Total	0.00	0.00	0.00
Materials Total	5,703.61	1,711.08	3,992.53
Additional Items	0.00	0.00	0.00
Final Total	10,397.62	3,119.29	7,278.33

Customer Agent: JAMES PEPPIN

*This output does NOT include taxes. Applicable sales tax will be billed on the final invoice.
Customer hereby acknowledges receipt of the materials and services described above and on the attached documents.
I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.*

X
Customer Signature

Field Ticket Total (USD): **\$7,278.33**



Cement Job Summary

Job Number: LIB1704121734		Job Purpose: 01 Surface	
Customer: Landmark Resources, Inc.			Date: 4/12/2017
Well Name: Felt		Number: 1-29	
County: Scott		City:	
Cust. Rep: Juan		Phone: 620-655-6886	
Legal Desc:		Rig Name: Murfin #21	
Distance: 40 miles (one way)		Supervisor: James Peppin	

Employees:	Emp. ID:	Employees:	Emp. ID:
James Peppin		Jaime Torres	
Victor Corona-marta		Carlos Ibarra	

Equipment:	
903-4/501-5	
868-4/642-5	

Well Information					
Open Hole Section					
Description:	Size (in):	Excess	Top MD (ft)	Btm MD (ft)	
OPEN HOLE	12 1/4	100%	0	260	TAIL CEMENT
OPEN HOLE	12 1/4			0	LEAD CEMENT
OPEN HOLE	12 1/4				
OPEN HOLE	12 1/4				

Tubulars						
Description:	Size (in):	Wgt. (lb/ft)	ID (in)	Grade:	Top MD (ft)	Btm MD (ft)
TOTAL CASING	8 5/8	23	8.097	J-55	0	260
SHOE	8 5/8	23	8.097	J-55	218	260

Materials - Pumping Schedule						
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Spacer 1	FRESH WATER	5	8.33	n/a	n/a	
Tail 1	CLASS A COMMON	175	14.96	1.34	6.20	
Addl. Additive	Description	Conc. (lb/sk)	Determined by	Load Volume	UOM	
CA-100	CALCIUM CHLORIDE, PELLETS OR FLAKE	2.82	% BWOC	493.5	lbm	
CGEL	GEL - BENTONITE	1.88	% BWOC	329.0	lbm	
Fluid Name	Description	Rqstd Qty	Density	Yield	Water (gal/sk)	
Disp. 1	Dispalcement	13.88301603	8.33	n/a	n/a	

Job Number: LIB1704121734		Job Purpose: 01 Surface	
Customer: Landmark Resources, Inc.			Date: 4/12/2017
Well Name: Felt		Number: 1-29	
County: Scott		City:	
Cust. Rep: Juan		Phone: 620-655-6886	
Distance: 40 miles (one way)		Supervisor: James Peppin	

TIME	PRESSURE - (PSI)		FLUID PUMPED DATA		COMMENTS
	CASING	ANNULUS	VOLUME	RATE (BPM)	
1200PM					Arrived at location
1704PM					Safety meetin with rig crew
1715 PM	1000				Texting lines



Cement Job Summary

1718 PM	50		5	5	5bbls of H2O ahead
1720 PM	100		42	5	Lead cement 42 bbls slurry @14.97#
1732 PM	50		14	3	Displacement 14 bbls even
1734 PM					Shut down and close valve
1740 PM					Rig down
					Thanked the crew and I the customer
					for the job