



DRILL STEM TEST REPORT

Prepared For: **Landmark Resources**

1616 S Voss Rd
STE 600
Houston TX, 77057-2641

ATTN: Wes Hanson

Janzen #2-1

1-17s-34w Scott,KS

Start Date: 2015.01.19 @ 12:25:00

End Date: 2015.01.19 @ 21:53:15

Job Ticket #: 58522 DST #: 1

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

Printed: 2015.01.22 @ 14:11:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources
 1616 S Voss Rd
 STE 600
 Houston TX, 77057-2641
 ATTN: Wes Hanson

1-17s-34w Scott,KS
Janzen #2-1
 Job Ticket: 58522 **DST#: 1**
 Test Start: 2015.01.19 @ 12:25:00

GENERAL INFORMATION:

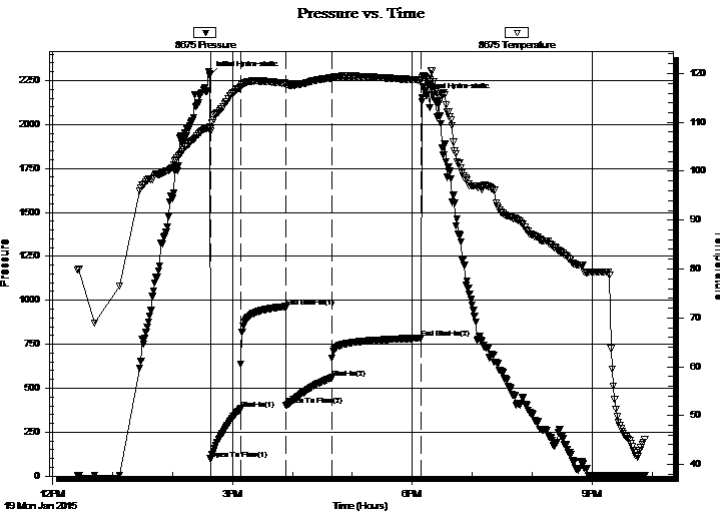
Formation: **Marmaton**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:38:00
 Time Test Ended: 21:53:15
 Interval: **4408.00 ft (KB) To 4510.00 ft (KB) (TVD)**
 Total Depth: 4510.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jace McKinney
 Unit No: 75
 Reference Elevations: 3112.00 ft (KB)
 3102.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8675

Inside

Press@RunDepth: 559.71 psig @ 4428.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.19 End Date: 2015.01.19 Last Calib.: 2015.01.19
 Start Time: 12:25:15 End Time: 21:53:15 Time On Btm: 2015.01.19 @ 14:37:30
 Time Off Btm: 2015.01.19 @ 18:09:30

TEST COMMENT: B.O.B. in 3 min.
 Bled off for 5 min, Built to 1/2" died to surface return blow.
 B.O.B. in 4 1/2 min.
 Bled off for 5 min, No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2280.10	109.16	Initial Hydro-static
1	98.24	108.23	Open To Flow (1)
31	383.05	117.16	Shut-In(1)
76	964.83	117.99	End Shut-In(1)
77	401.96	117.72	Open To Flow (2)
122	559.71	119.10	Shut-In(2)
212	785.48	118.65	End Shut-In(2)
212	2153.91	119.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
219.00	gco 15%G 85%O	3.07
315.00	gco 50%G 50%O	4.42
315.00	gcmo 15%G 15%M 70%O	4.42
252.00	mcgo 10%M 40%G 50%O	3.53
379.00	mcgo 20%M 40%G 40%O	5.32
0.00	975 Feet Gas In Pipe	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources
1616 S Voss Rd
STE 600
Houston TX, 77057-2641
ATTN: Wes Hanson

1-17s-34w Scott,KS
Janzen #2-1
Job Ticket: 58522 **DST#: 1**
Test Start: 2015.01.19 @ 12:25:00

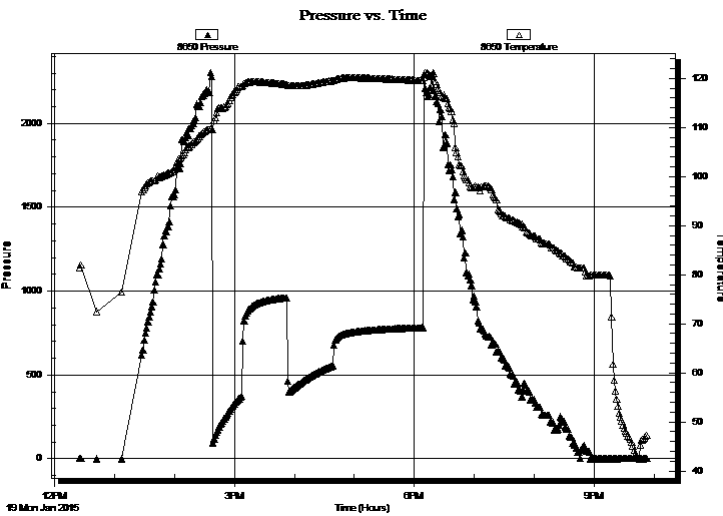
GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:38:00
Time Test Ended: 21:53:15
Test Type: Conventional Bottom Hole (Initial)
Tester: Jace McKinney
Unit No: 75
Interval: **4408.00 ft (KB) To 4510.00 ft (KB) (TVD)**
Reference Elevations: 3112.00 ft (KB)
Total Depth: 4510.00 ft (KB) (TVD)
3102.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor
KB to GR/CF: 10.00 ft

Serial #: 8650 Outside

Press@RunDepth: psig @ 4428.00 ft (KB)
Start Date: 2015.01.19 End Date: 2015.01.19
Start Time: 12:25:15 End Time: 21:53:00
Capacity: 8000.00 psig
Last Calib.: 2015.01.19
Time On Btm:
Time Off Btm:

TEST COMMENT: B.O.B. in 3 min.
Bled off for 5 min, Built to 1/2" died to surface return blow .
B.O.B. in 4 1/2 min.
Bled off for 5 min, No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
219.00	gco 15%G 85%O	3.07
315.00	gco 50%G 50%O	4.42
315.00	gcmo 15%G 15%M 70%O	4.42
252.00	mcgo 10%M 40%G 50%O	3.53
379.00	mcgo 20%M 40%G 40%O	5.32
0.00	975 Feet Gas In Pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources

1-17s-34w Scott,KS

1616 S Voss Rd
STE 600
Houston TX, 77057-2641
ATTN: Wes Hanson

Janzen #2-1

Job Ticket: 58522

DST#: 1

Test Start: 2015.01.19 @ 12:25:00

Tool Information

Drill Pipe:	Length: 4400.87 ft	Diameter: 3.80 inches	Volume: 61.73 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 98000.00 lb
			<u>Total Volume: 61.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.37 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4408.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	129.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4381.50	
Shut In Tool	5.00			4386.50	
Hydraulic tool	5.00			4391.50	
Jars	5.00			4396.50	
Safety Joint	2.50			4399.00	
Packer	5.00			4404.00	27.50 Bottom Of Top Packer
Packer	4.00			4408.00	
Stubb	1.00			4409.00	
Perforations	18.00			4427.00	
Change Over Sub	1.00			4428.00	
Recorder	0.00	8675	Inside	4428.00	
Recorder	0.00	8650	Outside	4428.00	
Drill Pipe	63.00			4491.00	
Change Over Sub	1.00			4492.00	
Perforations	15.00			4507.00	
Bullnose	3.00			4510.00	102.00 Bottom Packers & Anchor
Total Tool Length:	129.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources

1-17s-34w Scott,KS

1616 S Voss Rd
STE 600
Houston TX, 77057-2641
ATTN: Wes Hanson

Janzen #2-1

Job Ticket: 58522

DST#: 1

Test Start: 2015.01.19 @ 12:25:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 8.78 in³
Resistivity: ohm.m
Salinity: 6000.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 33 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

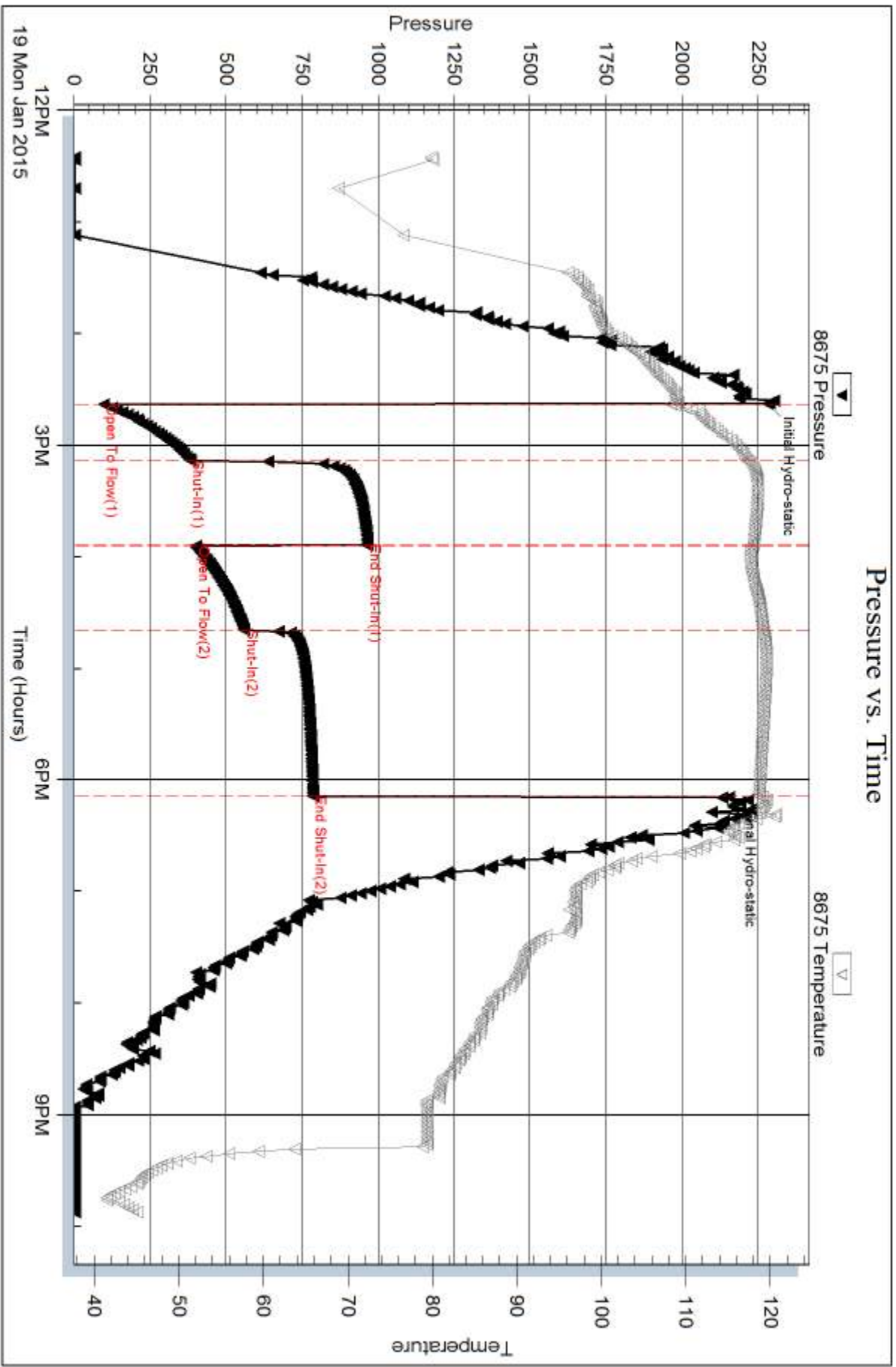
Length ft	Description	Volume bbl
219.00	gco 15%G 85%O	3.072
315.00	gco 50%G 50%O	4.419
315.00	gcmo 15%G 15%M 70%O	4.419
252.00	mcgo 10%M 40%G 50%O	3.535
379.00	mcgo 20%M 40%G 40%O	5.316
0.00	975 Feet Gas In Pipe	0.000

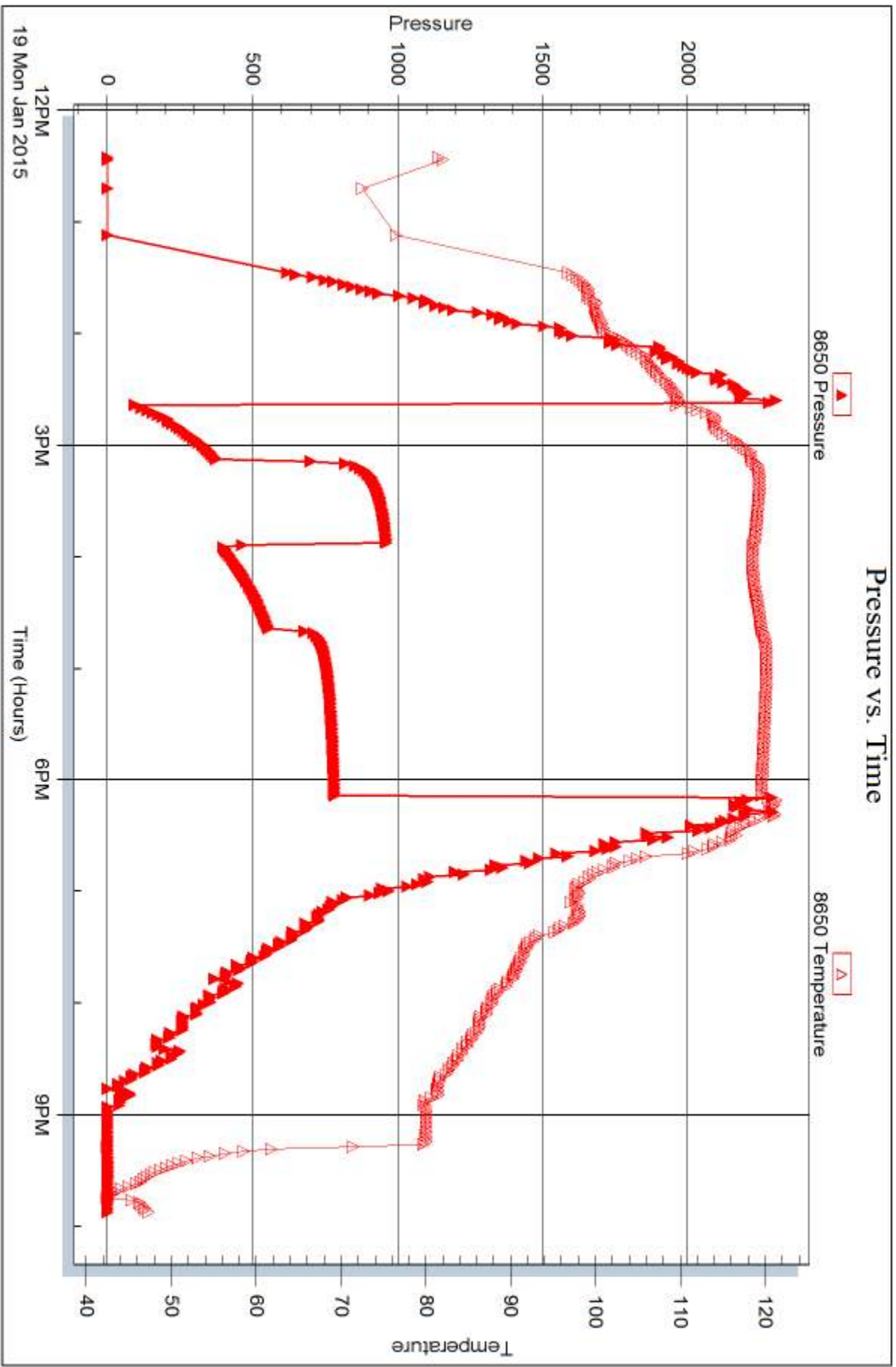
Total Length: 1480.00 ft Total Volume: 20.761 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW: 32 @ 50 F= 33







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources**

1616 S Voss Rd
STE 600
Houston TX, 77057-2641

ATTN: Wes Hanson

Janzen #2-1

1-17s-34w Scott,KS

Start Date: 2015.01.19 @ 23:10:00

End Date: 2015.01.20 @ 08:35:00

Job Ticket #: 58523 DST #: 2

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

Printed: 2015.01.22 @ 14:11:17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources

1-17s-34w Scott,KS

1616 S Voss Rd
STE 600
Houston TX, 77057-2641
ATTN: Wes Hanson

Janzen #2-1

Job Ticket: 58523

DST#: 2

Test Start: 2015.01.19 @ 23:10:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:10:45

Time Test Ended: 08:35:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: 4408.00 ft (KB) To 4510.00 ft (KB) (TVD)

Reference Elevations: 3112.00 ft (KB)

Total Depth: 4510.00 ft (KB) (TVD)

3102.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8675 Inside

Press@RunDepth: 359.72 psig @ 4428.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.19

End Date:

2015.01.20

Last Calib.:

2015.01.20

Start Time: 23:10:15

End Time:

08:35:00

Time On Btm:

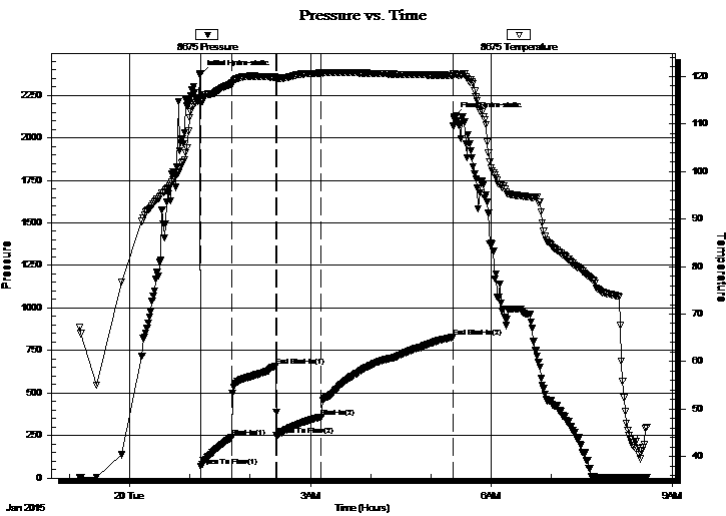
2015.01.20 @ 01:10:15

Time Off Btm:

2015.01.20 @ 05:23:00

TEST COMMENT: B.O.B. in 3 min.
Bled off for 5 min, Built to 6" return blow
B.O.B. in 5 min.
Bled off for 5 min, Built to 1", died to no return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2371.62	115.46	Initial Hydro-static
1	67.89	114.31	Open To Flow (1)
31	238.50	118.41	Shut-In(1)
76	660.01	119.86	End Shut-In(1)
76	249.82	119.68	Open To Flow (2)
121	359.72	120.72	Shut-In(2)
252	829.39	120.25	End Shut-In(2)
253	2125.55	120.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1542 Feet Gas In Pipe	0.00
282.00	gco 10%G 90%O	3.96
252.00	gco 30%G 70%O	3.53
189.00	mcgo 5%M 15%g 80%O	2.65
252.00	mcog 15%M 15%O 70%G	3.53

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Landmark Resources
 1616 S Voss Rd
 STE 600
 Houston TX, 77057-2641
 ATTN: Wes Hanson

1-17s-34w Scott,KS

Janzen #2-1

Job Ticket: 58523

DST#: 2

Test Start: 2015.01.19 @ 23:10:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:10:45

Time Test Ended: 08:35:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 75

Interval: 4408.00 ft (KB) To 4510.00 ft (KB) (TVD)

Reference Elevations: 3112.00 ft (KB)

Total Depth: 4510.00 ft (KB) (TVD)

3102.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8650 Outside

Press@RunDepth: psig @ 4428.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.19

End Date: 2015.01.20

Last Calib.: 2015.01.20

Start Time: 23:10:15

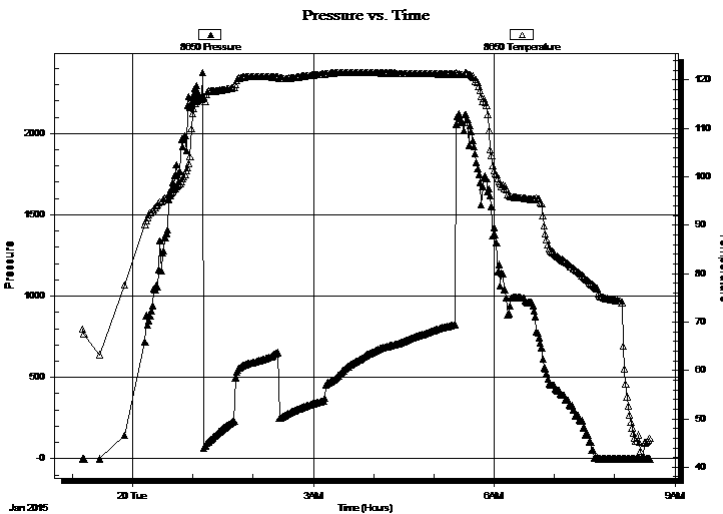
End Time: 08:34:45

Time On Btm:

Time Off Btm:

TEST COMMENT: B.O.B. in 3 min.
 Bled off for 5 min, Built to 6" return blow
 B.O.B. in 5 min.
 Bled off for 5 min, Built to 1", died to no return blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1542 Feet Gas In Pipe	0.00
282.00	gco 10%G 90%O	3.96
252.00	gco 30%G 70%O	3.53
189.00	mcgo 5%M 15%g 80%O	2.65
252.00	mcog 15%M 15%O 70%G	3.53

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

1-17s-34w Scott,KS

1616 S Voss Rd
STE 600
Houston TX, 77057-2641
ATTN: Wes Hanson

Janzen #2-1

Job Ticket: 58523

DST#: 2

Test Start: 2015.01.19 @ 23:10:00

Tool Information

Drill Pipe:	Length: 4400.87 ft	Diameter: 3.80 inches	Volume: 61.73 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.73 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.37 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4408.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	129.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4381.50	
Shut In Tool	5.00			4386.50	
Hydraulic tool	5.00			4391.50	
Jars	5.00			4396.50	
Safety Joint	2.50			4399.00	
Packer	5.00			4404.00	27.50 Bottom Of Top Packer
Packer	4.00			4408.00	
Stubb	1.00			4409.00	
Perforations	18.00			4427.00	
Change Over Sub	1.00			4428.00	
Recorder	0.00	8675	Inside	4428.00	
Recorder	0.00	8650	Outside	4428.00	
Drill Pipe	63.00			4491.00	
Change Over Sub	1.00			4492.00	
Perforations	15.00			4507.00	
Bullnose	3.00			4510.00	102.00 Bottom Packers & Anchor
Total Tool Length:	129.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources

1-17s-34w Scott,KS

1616 S Voss Rd
STE 600
Houston TX, 77057-2641
ATTN: Wes Hanson

Janzen #2-1

Job Ticket: 58523

DST#: 2

Test Start: 2015.01.19 @ 23:10:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 8.78 in³
Resistivity: ohm.m
Salinity: 6000.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 33 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

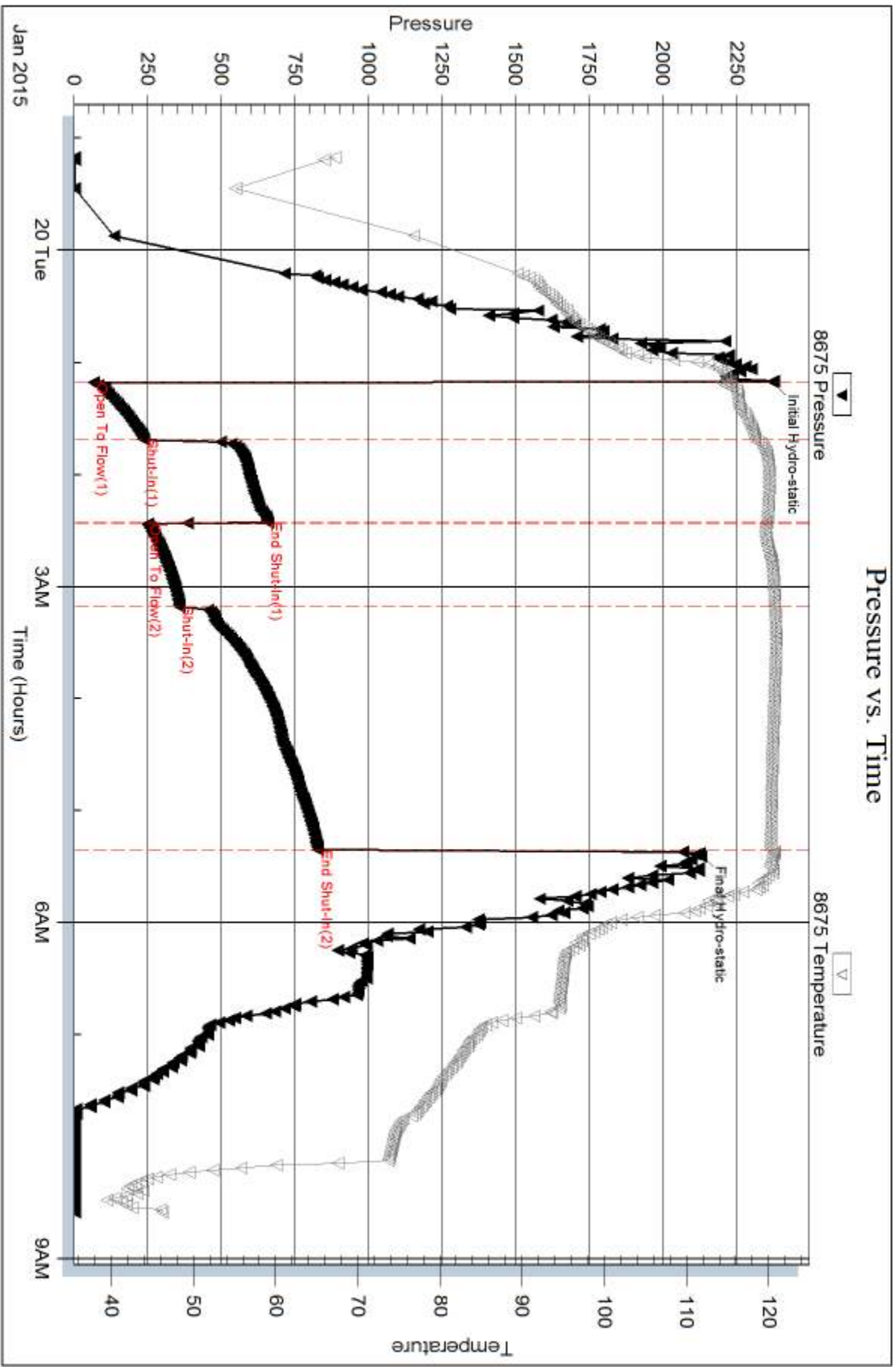
Length ft	Description	Volume bbl
0.00	1542 Feet Gas In Pipe	0.000
282.00	gco 10%G 90%O	3.956
252.00	gco 30%G 70%O	3.535
189.00	mcgo 5%M 15%g 80%O	2.651
252.00	mcog 15%M 15%O 70%G	3.535

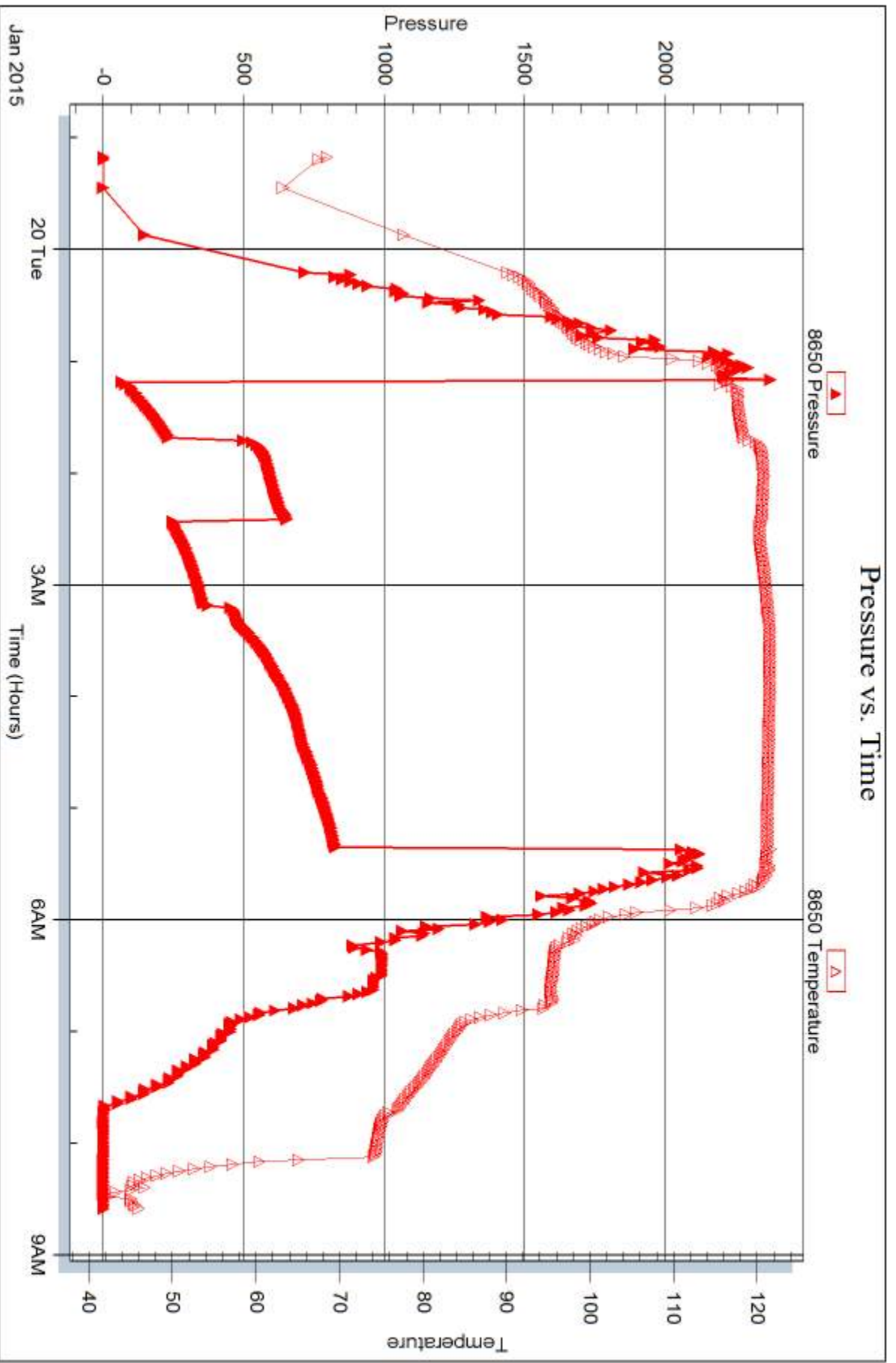
Total Length: 975.00 ft Total Volume: 13.677 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: API: 31 @ 40 F= 33







DRILL STEM TEST REPORT

Prepared For: **Landmark Resources**

1616 S Voss Rd
STE 600
Houston TX, 77057-2641

ATTN: Wes Hanson

Janzen #2-1

1-17s-34w Scott,KS

Start Date: 2015.01.21 @ 09:10:00

End Date: 2015.01.21 @ 17:02:45

Job Ticket #: 58524 DST #: 3

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

Printed: 2015.01.22 @ 14:10:35



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Landmark Resources
1616 S Voss Rd
STE 600
Houston TX, 77057-2641
ATTN: Wes Hanson

1-17s-34w Scott,KS

Janzen #2-1

Job Ticket: 58524

DST#: 3

Test Start: 2015.01.21 @ 09:10:00

GENERAL INFORMATION:

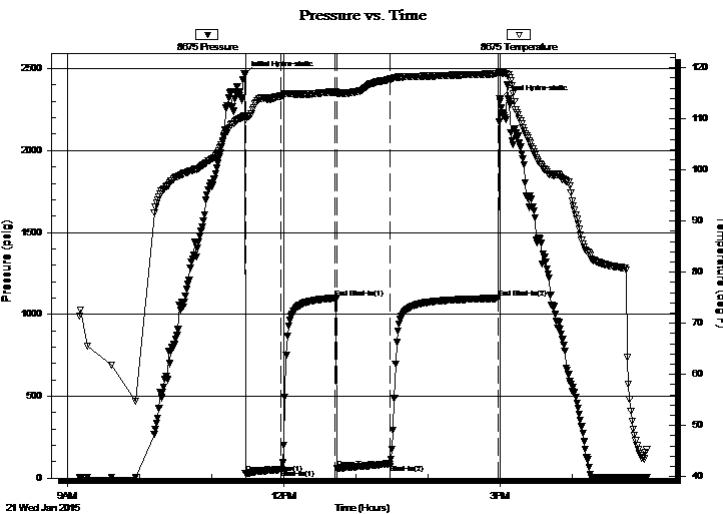
Formation: **Johnson Zone**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:28:15
 Time Test Ended: 17:02:45
 Interval: **4636.00 ft (KB) To 4710.00 ft (KB) (TVD)**
 Total Depth: 4710.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jace McKinney
 Unit No: 75
 Reference Elevations: 3112.00 ft (KB)
 3102.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8675

Inside

Press@RunDepth: 85.18 psig @ 4659.00 ft (KB)
 Start Date: 2015.01.21 End Date: 2015.01.21
 Start Time: 09:10:15 End Time: 17:02:45
 Capacity: 8000.00 psig
 Last Calib.: 2015.01.21
 Time On Btm: 2015.01.21 @ 11:27:45
 Time Off Btm: 2015.01.21 @ 15:00:00

TEST COMMENT: Built 5 1/2" blow
 Bled off for 3 min, No return blow
 Built to 5" blow
 Bled off for 3 min, No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2460.45	110.66	Initial Hydro-static
1	28.15	109.93	Open To Flow (1)
31	53.53	114.47	Shut-In(1)
76	1099.33	115.27	End Shut-In(1)
77	60.03	115.03	Open To Flow (2)
121	85.18	117.73	Shut-In(2)
211	1097.76	118.84	End Shut-In(2)
213	2314.14	119.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clean Oil	0.07
126.00	ocm 5%O 95%M	1.77

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Landmark Resources
 1616 S Voss Rd
 STE 600
 Houston TX, 77057-2641
 ATTN: Wes Hanson

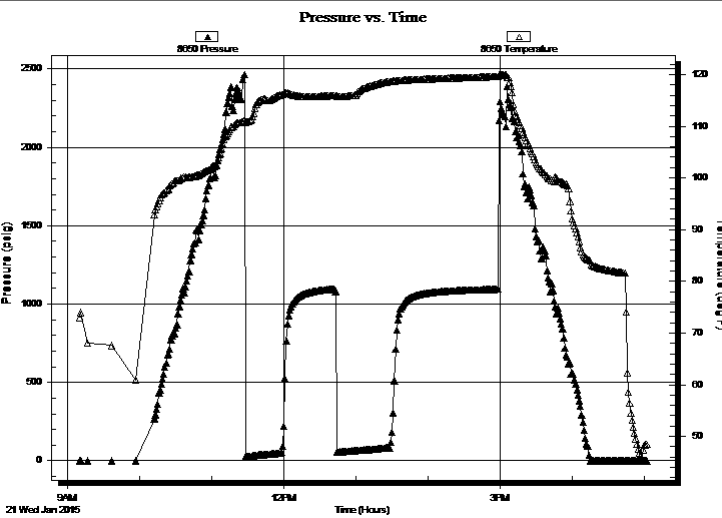
1-17s-34w Scott,KS
Janzen #2-1
 Job Ticket: 58524 **DST#: 3**
 Test Start: 2015.01.21 @ 09:10:00

GENERAL INFORMATION:

Formation:	Johnson Zone			Test Type:	Conventional Bottom Hole (Reset)
Deviated:	No Whipstock:	ft (KB)		Tester:	Jace McKinney
Time Tool Opened:	11:28:15			Unit No:	75
Time Test Ended:	17:02:45			Reference Elevations:	3112.00 ft (KB)
Interval:	4636.00 ft (KB) To 4710.00 ft (KB) (TVD)				3102.00 ft (CF)
Total Depth:	4710.00 ft (KB) (TVD)			KB to GR/CF:	10.00 ft
Hole Diameter:	7.88 inches	Hole Condition:	Poor		

Serial #: 8650	Outside			Capacity:	8000.00 psig
Press@RunDepth:	psig @	4659.00 ft (KB)		Last Calib.:	2015.01.21
Start Date:	2015.01.21	End Date:	2015.01.21	Time On Btm:	
Start Time:	09:10:15	End Time:	17:02:30	Time Off Btm:	

TEST COMMENT: Built 5 1/2" blow
 Bled off for 3 min, No return blow
 Built to 5" blow
 Bled off for 3 min, No return blow



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

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Clean Oil	0.07
126.00	ocm 5%O 95%M	1.77

* 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

1-17s-34w Scott,KS

1616 S Voss Rd
STE 600
Houston TX, 77057-2641
ATTN: Wes Hanson

Janzen #2-1

Job Ticket: 58524

DST#: 3

Test Start: 2015.01.21 @ 09:10:00

Tool Information

Drill Pipe:	Length: 4622.52 ft	Diameter: 3.80 inches	Volume: 64.84 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 92000.00 lb
			<u>Total Volume: 64.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.02 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4636.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	101.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4609.50	
Shut In Tool	5.00			4614.50	
Hydraulic tool	5.00			4619.50	
Jars	5.00			4624.50	
Safety Joint	2.50			4627.00	
Packer	5.00			4632.00	27.50 Bottom Of Top Packer
Packer	4.00			4636.00	
Stubb	1.00			4637.00	
Perforations	21.00			4658.00	
Change Over Sub	1.00			4659.00	
Recorder	0.00	8675	Inside	4659.00	
Recorder	0.00	8650	Outside	4659.00	
Drill Pipe	32.00			4691.00	
Change Over Sub	1.00			4692.00	
Perforations	15.00			4707.00	
Bullnose	3.00			4710.00	74.00 Bottom Packers & Anchor
Total Tool Length:	101.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Landmark Resources

1-17s-34w Scott,KS

1616 S Voss Rd
STE 600
Houston TX, 77057-2641
ATTN: Wes Hanson

Janzen #2-1

Job Ticket: 58524

DST#: 3

Test Start: 2015.01.21 @ 09:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 9.59 in³

Resistivity: ohm.m

Salinity: 6500.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

30 deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Clean Oil	0.070
126.00	ocm 5%O 95%M	1.767

Total Length: 131.00 ft Total Volume: 1.837 bbl

Num Fluid Samples: 0

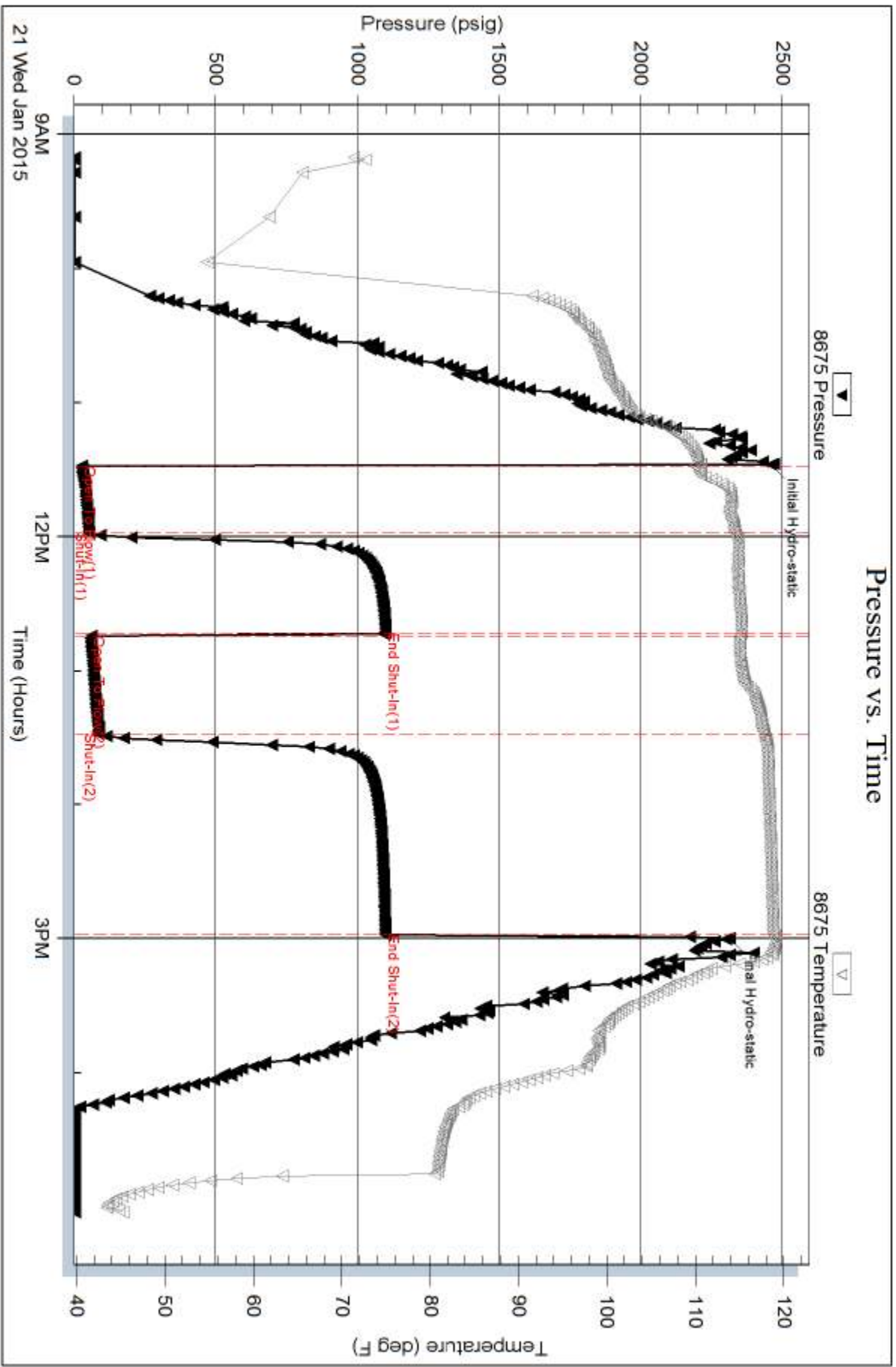
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: 28 @ 40 F = 30

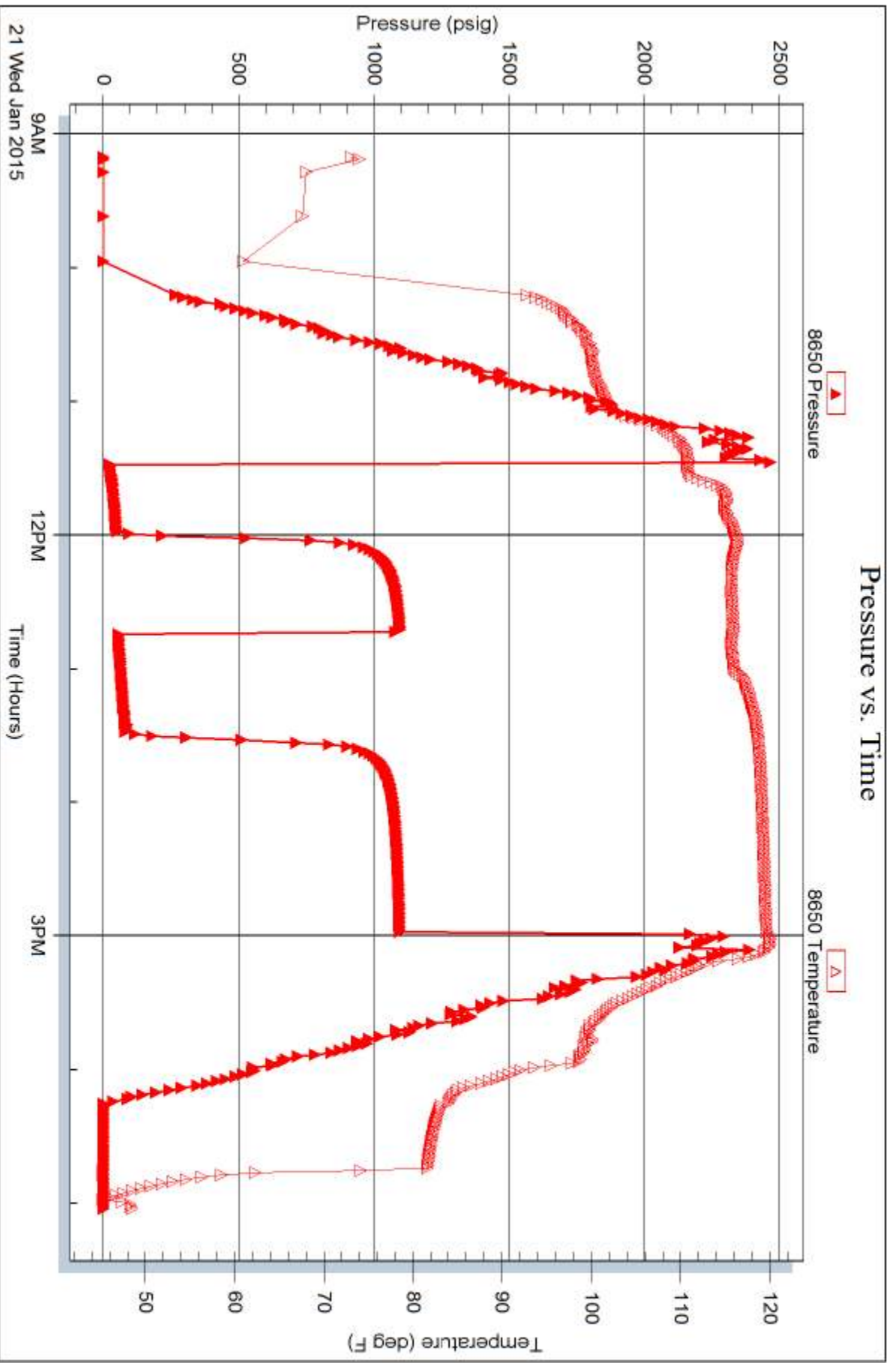


Serial #: 8650

Outside Landmark Resources

Janzen #2-1

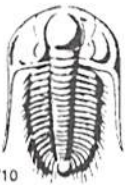
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58524

Printed: 2015.01.22 @ 14:10:37



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58522

4/10

Well Name & No. Janzen # 2-1 Test No. 1 Date 1/19/15
 Company Landmark Resources Elevation 3112 KB 3102 GL
 Address Kelle S Voss Rd, STE 600 Houston TX, 77057-2641
 Co. Rep / Geo. Wes Hanson Rig Val Rig I
 Location: Sec. 1 Twp. 17S Rge. 34W Co. Scott State KS

Interval Tested 4408-4510 Zone Tested Marmaton
 Anchor Length 102 Drill Pipe Run 4400.87 Mud Wt. 9.5
 Top Packer Depth 4404 Drill Collars Run _____ Vis 56
 Bottom Packer Depth 4408 Wt. Pipe Run _____ WL 8.8
 Total Depth 4510 Chlorides 6,000 ppm System LCM 2#

Blow Description B.O.B. in 3 min.
Bled off for 5 min. Built to 1/2", died to surface return below
B.O.B. in 4 1/2 min.

Bled off for 5 min. No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>219</u>	<u>geo</u>	<u>15</u>	<u>85</u>		
<u>315</u>	<u>geo</u>	<u>50</u>	<u>50</u>		
<u>315</u>	<u>gcmo</u>	<u>15</u>	<u>70</u>		<u>15</u>
<u>252</u>	<u>mego</u>	<u>40</u>	<u>50</u>		<u>10</u>
<u>379</u>	<u>mego</u>	<u>40</u>	<u>40</u>		<u>20</u>

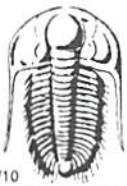
Rec Total 1480 BHT 119 Gravity 33 API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 2,280 Test 1150 T-On Location 11:30
 (B) First Initial Flow 98 Jars 250 T-Started 12:25
 (C) First Final Flow 383 Safety Joint 75 T-Open 14:38
 (D) Initial Shut-In 965 Circ Sub N/C T-Pulled 18:08
 (E) Second Initial Flow 402 Hourly Standby _____ T-Out 21:53
 (F) Second Final Flow 560 Mileage 40 RT 40 Comments 975' Gas In Pipe
 (G) Final Shut-In 785 Sampler _____
 (H) Final Hydrostatic 2,154 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 90
 Sub Total 1515

Approved By Wesley Hanson 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. 58523

Well Name & No. Janzen # 2-1 Test No. 2 Date 1/19/15 1/20/15
 Company Landmark Resources Elevation 3112 KB 3102 GL
 Address 11616 S Voss Rd, STE 600, Houston TX, 77057-2141
 Co. Rep / Geo. Wes Hanson Rig Val Rig 1
 Location: Sec. 1 Twp. 17s Rge. 34w Co. Scott County State K5

Interval Tested 4408-4510 Zone Tested Marmaton
 Anchor Length 102 Drill Pipe Run 4400.81 Mud Wt. 9.5
 Top Packer Depth 4404 Drill Collars Run _____ Vis 56
 Bottom Packer Depth 4408 Wt. Pipe Run _____ WL 8.8
 Total Depth 4510 Chlorides 6,000 ppm System LCM 2#

Blow Description B.O.B. in 3 min.
Bled off for 5 min. Built to 6" return below
B.O.B. in 5 min.

Bled off for 5 min. Built to 1", died to no return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>1542' casing in pipe</u>				
<u>282</u>	<u>gco</u>	<u>10</u>	<u>90</u>		
<u>252</u>	<u>gco</u>	<u>30</u>	<u>70</u>		
<u>189</u>	<u>mco</u>	<u>15</u>	<u>80</u>	<u>5</u>	
<u>252</u>	<u>mco</u>	<u>70</u>	<u>15</u>	<u>15</u>	

Rec Total 976 BHT 120 Gravity 33 API RW _____ @ _____ °F Chlorides _____ ppm

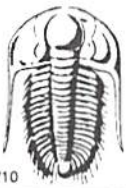
(A) Initial Hydrostatic 2,372 Test 1150 T-On Location 22:00
 (B) First Initial Flow 68 Jars 250 T-Started 23:10
 (C) First Final Flow 239 Safety Joint 75 T-Open 01:11
 (D) Initial Shut-In 660 Circ Sub N/C T-Pulled 05:11
 (E) Second Initial Flow 250 Hourly Standby 2 hours 000 T-Out 08:35
 (F) Second Final Flow 360 Mileage HORT 40 Comments _____
 (G) Final Shut-In 829 Sampler _____
 (H) Final Hydrostatic 2,126 Straddle _____

Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1515

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1515
 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. 58524

Well Name & No. Janzen # 2-1 Test No. 3 Date 1/21/15
 Company Landmark Resources Elevation 3112 KB 3102 GL
 Address 1666 S Voss Rd, STE 600 Houston TX, 77057-2641
 Co. Rep / Geo. Wes Hanson Rig Val Rig 1
 Location: Sec. 1 Twp. 17s Rge. 34w Co. Scott County State K5

Interval Tested 4636-4710 Zone Tested Johnson Zone
 Anchor Length 74 Drill Pipe Run 4622.52 Mud Wt. 9.4
 Top Packer Depth 4632 Drill Collars Run _____ Vis 52
 Bottom Packer Depth 4636 Wt. Pipe Run _____ WL 9.6
 Total Depth 4710 Chlorides 6,500 ppm System LCM 3#

Blow Description Built to 5 1/2" below
Bled off for 3 min. No return below

Built to 5" below
Bled off for 3 min. No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>oil</u>	<u>100</u>			
<u>126</u>	<u>OCM</u>				
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 131 BHT 119 Gravity 30 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2,460 Test 1150 T-On Location 08:00
 (B) First Initial Flow 28 Jars 250 T-Started 09:10
 (C) First Final Flow 54 Safety Joint 75 T-Open 11:29
 (D) Initial Shut-In 1,099 Circ Sub N/C T-Pulled 14:59
 (E) Second Initial Flow 60 Hourly Standby _____ T-Out 17:02
 (F) Second Final Flow 85 Mileage 40 RTX 2 80 Comments Loaded tools 08:00
 (G) Final Shut-In 1,098 Sampler _____ on 1/22/15
 (H) Final Hydrostatic 2,314 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 45 Day Standby _____ Total 1555
 Final Shut-In 90 Accessibility _____ MP/DST Disc't _____
 Sub Total 1555

Approved By _____ Our Representative [Signature]

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