



DRILL STEM TEST REPORT

Prepared For: **Marexco, Inc**

PO Box 21598
Oklahoma City, OK 73156

ATTN: Larry Nicholson

Lundgren #32-28

28-14s-29w Gove,KS

Start Date: 2019.01.04 @ 00:04:00

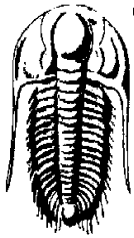
End Date: 2019.01.04 @ 07:47:30

Job Ticket #: 64449 DST #: 1

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

Printed: 2019.01.11 @ 11:03:57

Marexco, Inc
28-14s-29w Gove,KS
Lundgren #32-28
DST # 1
LKC - B
2019.01.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Marexco, Inc
 PO Box 21598
 Oklahoma City, OK 73156
 ATTN: Larry Nicholson

28-14s-29w Gove, KS
Lundgren #32-28
 Job Ticket: 64449 **DST#: 1**
 Test Start: 2019.01.04 @ 00:04:00

GENERAL INFORMATION:

Formation: **LKC - B**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:16:00
 Time Test Ended: 07:47:30
 Interval: **3695.00 ft (KB) To 3725.00 ft (KB) (TVD)**
 Total Depth: 3725.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bradley Walter
 Unit No: 78
 Reference Elevations: 2611.00 ft (KB)
 2606.00 ft (CF)
 KB to GR/CF: 5.00 ft

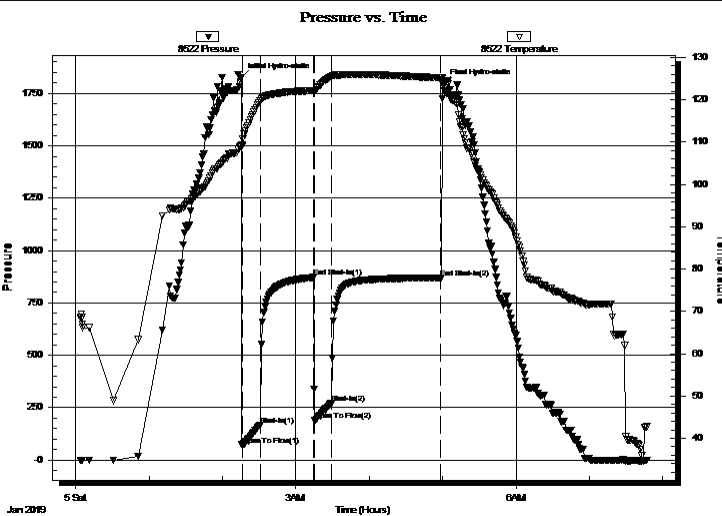
Serial #: 8522

Inside

Press@RunDepth: 271.56 psig @ 3696.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.01.05 End Date: 2019.01.05 Last Calib.: 2019.01.05
 Start Time: 00:04:05 End Time: 07:47:29 Time On Btm: 2019.01.05 @ 02:15:15
 Time Off Btm: 2019.01.05 @ 05:00:30

TEST COMMENT: 15- IF: BOB @ 90 sec. built to 66".
 30- IS: 18" return
 15- FF: BOB @ 90 sec, built to 45"
 90- FSI: 22" return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.18	109.00	Initial Hydro-static
1	70.58	109.27	Open To Flow (1)
16	167.07	119.68	Shut-In(1)
60	871.89	122.13	End Shut-In(1)
61	187.92	122.04	Open To Flow (2)
74	271.56	125.52	Shut-In(2)
163	870.22	125.17	End Shut-In(2)
166	1798.40	124.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gw mco 30g 10w 20m 40o	1.68
300.00	gmco 30g 5m 65o	4.21
230.00	go 30g 70o	3.23
0.00	850 GIP	0.00

Gas Rates

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



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TOOL DIAGRAM

Marexco, Inc
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Lundgren #32-28
Job Ticket: 64449 **DST#: 1**
Test Start: 2019.01.04 @ 00:04:00

Tool Information

Drill Pipe:	Length: 3680.00 ft	Diameter: 3.80 inches	Volume: 51.62 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.62 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3695.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 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			3669.00	
Shut In Tool	5.00		Fluid	3674.00	
Hydraulic tool	5.00			3679.00	
Jars	5.00			3684.00	
Safety Joint	2.00			3686.00	
Packer	5.00		Inside	3691.00	27.00 Bottom Of Top Packer
Packer	4.00			3695.00	
Stubb	1.00			3696.00	
Recorder	0.00	8522	Inside	3696.00	
Recorder	0.00	8319	Outside	3696.00	
Perforations	26.00			3722.00	
Bullnose	3.00			3725.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.00



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FLUID SUMMARY

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Lundgren #32-28
Job Ticket: 64449 **DST#: 1**
Test Start: 2019.01.04 @ 00:04:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 26 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	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
120.00	gw mco 30g 10w 20m 40o	1.683
300.00	gmco 30g 5m 65o	4.208
230.00	go 30g 70o	3.226
0.00	850 GIP	0.000

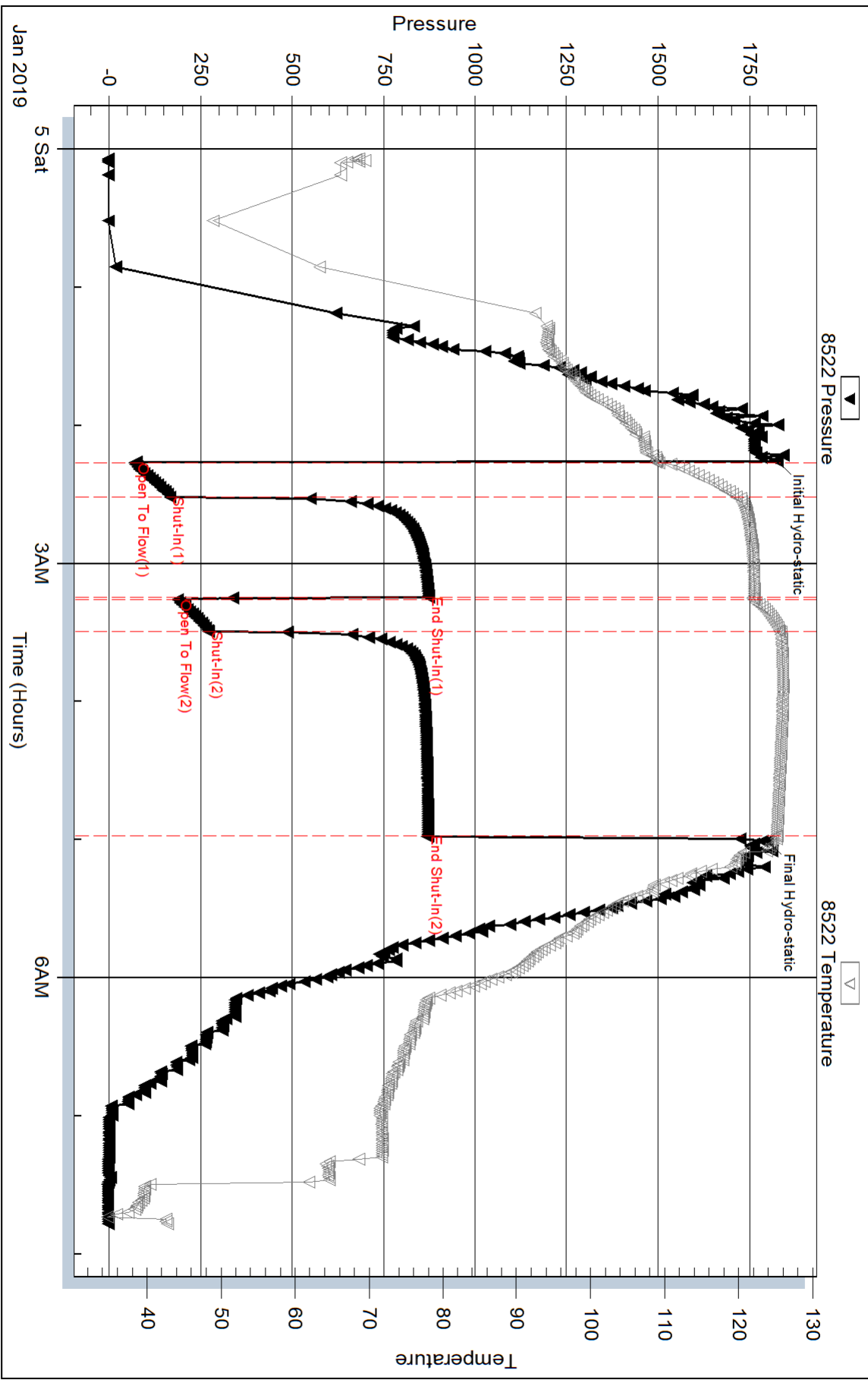
Total Length: 650.00 ft Total Volume: 9.117 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

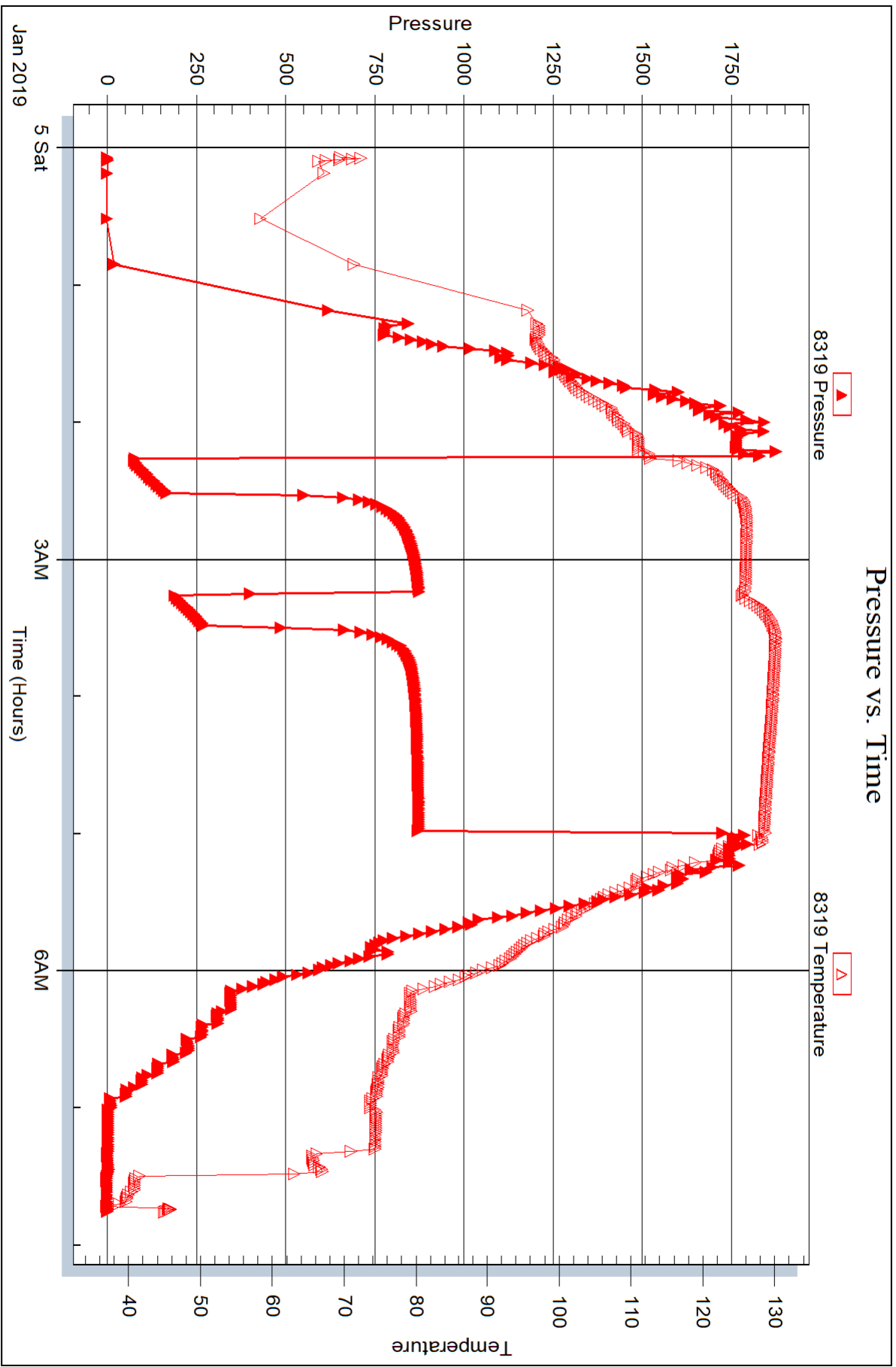


Serial #: 8319

Outside Marexco, Inc

Lundgren #32-28

DST Test Number: 1



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Ref. No: 64449

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