



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Herman L Loeb LLC
PO Box 838
Lawrenceville, IL 62439
ATTN: Jon Christensen

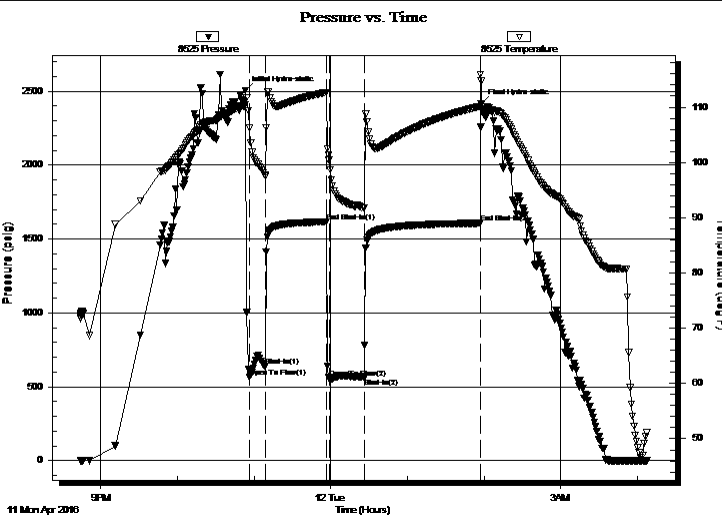
1-30S-19W Kiowa
Koger 3
Job Ticket: 57985 **DST#: 1**
Test Start: 2016.04.11 @ 20:44:01

GENERAL INFORMATION:

Formation: **Altamont Lime**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:56:16
Time Test Ended: 04:07:16
Interval: **4848.00 ft (KB) To 4882.00 ft (KB) (TVD)**
Total Depth: 4882.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 2281.00 ft (KB)
2269.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8525 Inside
Press @ Run Depth: 561.39 psig @ 4849.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2016.04.11 End Date: 2016.04.12 Last Calib.: 2016.04.12
Start Time: 20:44:02 End Time: 04:07:16 Time On Btm: 2016.04.11 @ 22:53:16
Time Off Btm: 2016.04.12 @ 01:57:31

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 3 minutes, Gauged & Caught Sample
IS: Would Not Bleed Off
FF: Strong Blow , BOB & GTS immediate, Gauged Gas
FS: Would Not Bleed Off



PRESSURE SUMMARY

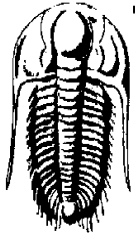
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2505.30	110.42	Initial Hydro-static
3	563.31	106.20	Open To Flow (1)
16	640.20	97.52	Shut-In(1)
63	1616.53	112.69	End Shut-In(1)
66	561.06	100.48	Open To Flow (2)
93	561.39	91.75	Shut-In(2)
184	1607.22	110.15	End Shut-In(2)
185	2413.17	114.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4836 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	140.00	4438.82
Last Gas Rate	0.75	160.00	2724.10
Max. Gas Rate	0.75	160.00	2724.10



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GENERAL INFORMATION:

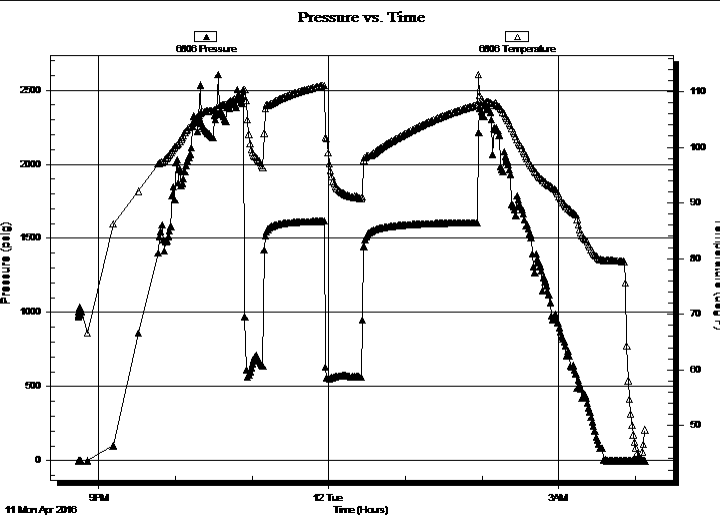
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 Total Depth: 4882.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2281.00 ft (KB)
 2269.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 6806

Outside

Press @ Run Depth: psig @ 4849.00 ft (KB)
 Start Date: 2016.04.11 End Date: 2016.04.12
 Start Time: 20:44:02 End Time: 04:07:16
 Capacity: 8000.00 psig
 Last Calib.: 2016.04.12
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds, GTS in 3 minutes, Gauged & Caught Sample
 IS: Would Not Bleed Off
 FF: Strong Blow , BOB & GTS immediate, Gauged Gas
 FS: Would Not Bleed Off



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4836 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	140.00	4438.82
Last Gas Rate	0.75	160.00	2724.10
Max. Gas Rate	0.75	160.00	2724.10



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GAS RATES

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1-30S-19W Kiowa
Koger 3
Job Ticket: 57985 **DST#: 1**
Test Start: 2016.04.11 @ 20:44:01

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	1.00	140.00	4438.82
1	15	1.00	125.00	4007.59
2	10	0.75	148.00	2536.66
2	20	0.75	160.00	2724.10
2	30	0.75	160.00	2724.10

Serial #: 8525

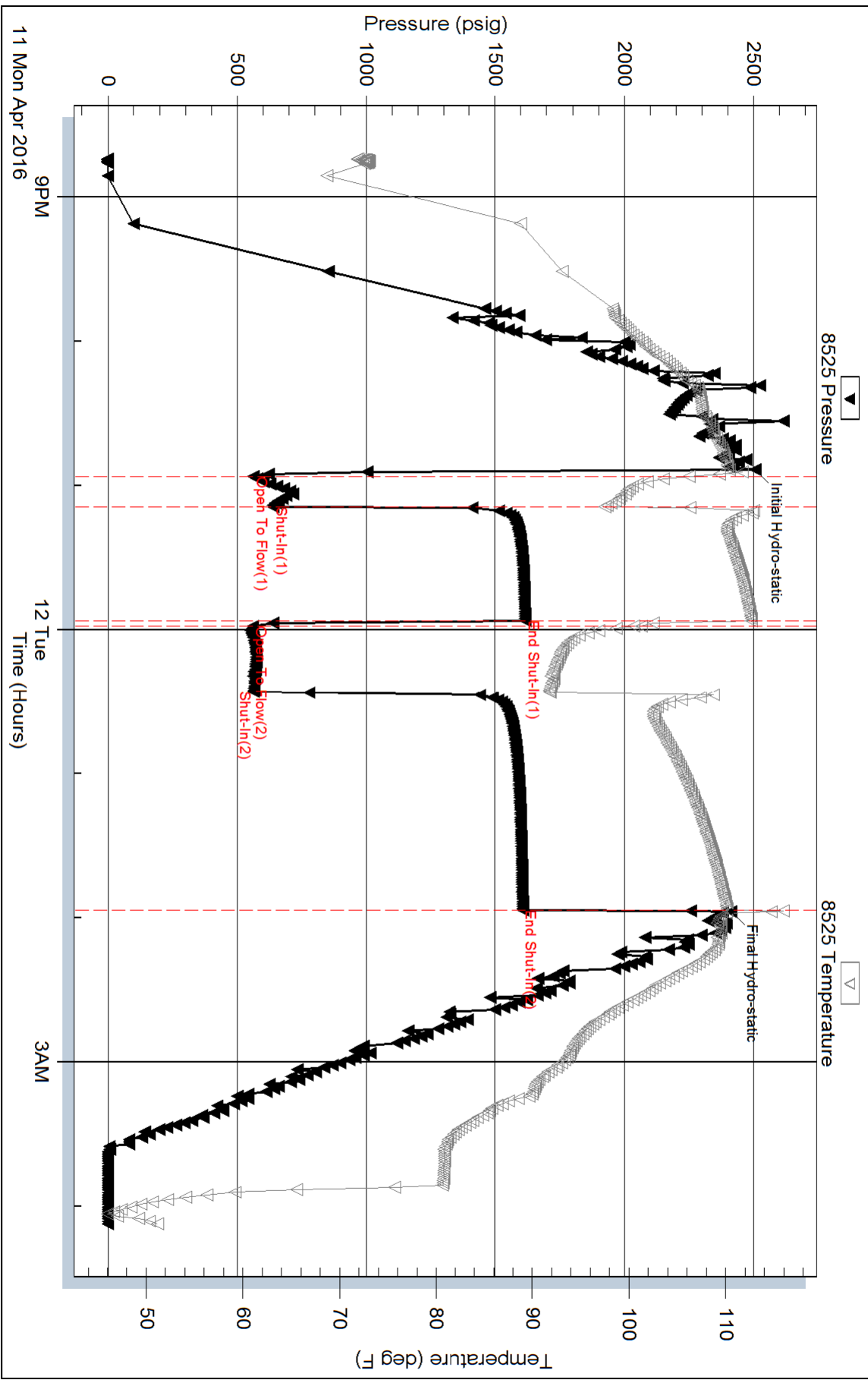
Inside

Herrnan L Loeb LLC

Koger 3

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 57985

Printed: 2016.04.12 @ 07:23:35

Serial #: 6806

Outside Herran L Loeb LLC

Koger 3

DST Test Number: 1

