

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 45752

Well Name & No. Panning 1-19 Test No. 1 Date 02/15/12
 Company Herman L. Loeb, LLC Elevation ~~1894~~ 1894 KB ~~1885~~ 1885 GL
 Address PO Box 838 Lawrenceville, IL 62439
 Co. Rep/Geo. Jon Christensen Rig Sterling 4
 Location: Sec. 19 Twp. 20S Rge. 13W Co. Barton State KS

Interval Tested 3268 - 3283 Zone Tested Lansing "A"
 Anchor Length 15 Drill Pipe Run 3095 Mud Wt. 9.2
 Top Packer Depth 3263 Drill Collars Run 182 Vis 49
 Bottom Packer Depth 3268 Wt. Pipe Run 0 WL 80
 Total Depth 3283 Chlorides 4800 ppm System LCM

Blow Description IF weak blow, 1/2 inch

ISI: NO Blow Back

FF: weak blow, 3/4 inch

FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>VSOCM</u>		<u>1</u>		<u>99</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

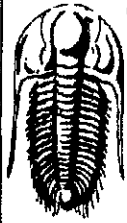
Rec Total 3 BHT 103° Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic	<u>1663</u>	<input checked="" type="checkbox"/> Test	T-On Location	<u>09:15</u>
(B) First Initial Flow	<u>12</u>	<input type="checkbox"/> Jars	T-Started	<u>10:19</u>
(C) First Final Flow	<u>19</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open	<u>12:24</u>
(D) Initial Shut-In	<u>68</u>	<input type="checkbox"/> Circ Sub	T-Pulled	<u>15:05</u>
(E) Second Initial Flow	<u>13</u>	<input type="checkbox"/> Hourly Standby	T-Out	<u>16:31</u>
(F) Second Final Flow	<u>19</u>	<input checked="" type="checkbox"/> Mileage <u>90</u>	Comments	
(G) Final Shut-In	<u>44</u>	<input type="checkbox"/> Sampler		
(H) Final Hydrostatic	<u>1510</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer	
Initial Open	<u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies	
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total	
Final Shut-In	<u>60</u>	<input type="checkbox"/> Day Standby	Total	
		<input type="checkbox"/> Accessibility	MP/DST Disc't	
		Sub Total		

Approved By [Signature]

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**

DRILL STEM TEST REPORT

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

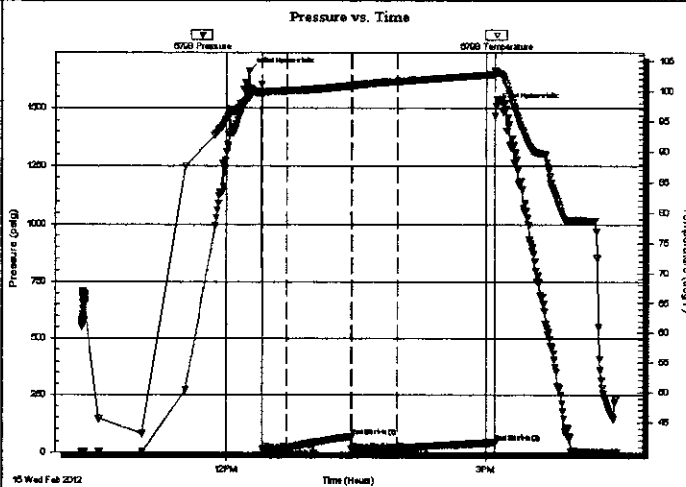
19-20S-13W Barton
Panning 1-19
Job Ticket: 45752 **DST#: 1**
Test Start: 2012.02.15 @ 10:19:28

GENERAL INFORMATION:

Formation: **Lansing "A"**
Deviated: No Whipstock ft (KB)
Time Tool Opened: 12:24:43
Time Test Ended: 16:31:13
Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 45
Interval: **3268.00 ft (KB) To 3283.00 ft (KB) (TVD)**
Reference Elevations: 1894.00 ft (KB)
Total Depth: 3283.00 ft (KB) (TVD) 1885.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

Serial #: 6798 Inside
Press@RunDepth: 18.68 psig @ 3269.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.02.15 End Date: 2012.02.15 Last Calib.: 2012.02.15
Start Time: 10:19:28 End Time: 16:31:13 Time On Btrm: 2012.02.15 @ 12:15:43
Time Off Btrm: 2012.02.15 @ 15:06:28

TEST COMMENT: IF: Weak Blow, 1/2 inch
IS: No Blow Back
FF: Weak Blow, 3/4 inch
FS: No Blow Back



PRESSURE SUMMARY

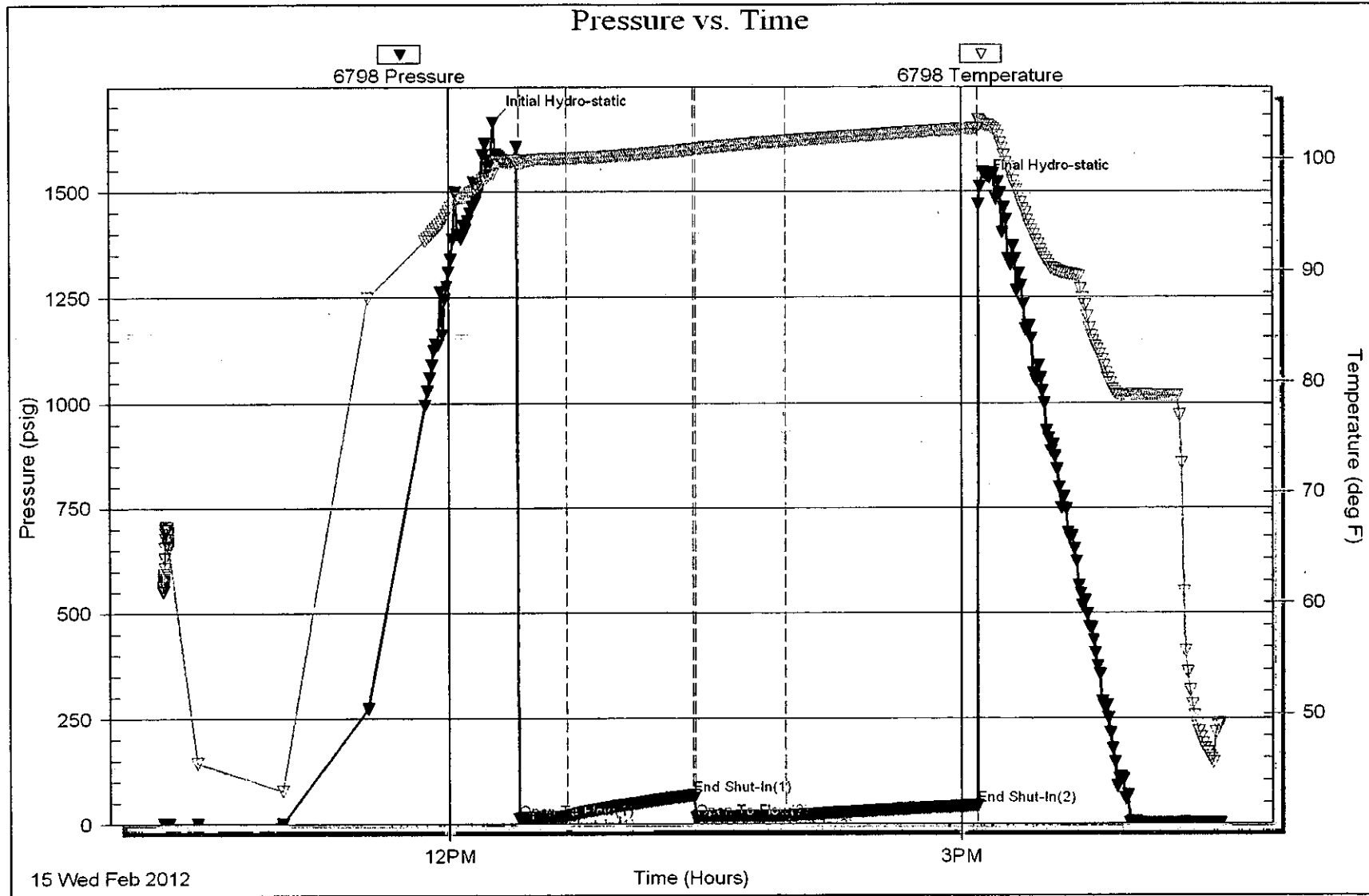
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1663.67	98.70	Initial Hydro-static
9	12.34	99.60	Open To Flow (1)
26	18.65	100.09	Shut-In(1)
71	68.15	100.87	End Shut-In(1)
71	13.36	100.94	Open To Flow (2)
103	18.68	101.62	Shut-In(2)
170	43.81	102.77	End Shut-In(2)
171	1510.67	103.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	VSOQM 1%O 99%M	0.01

Gas Rates

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





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 45753

Well Name & No. Panning 1-19 Test No. 2 Date 02/16/12
 Company Herman L Loeb LLC Elevation 1894 KB 1885 GL
 Address PO Box 838 Lawrenceville, IL 62439
 Co. Rep / Geo. Jon Christensen Rig Sterling 4
 Location: Sec. 19 Twp. 20S Rge. 13 W Co. Barton State KS

Interval Tested 3284 - 3340 Zone Tested Lansing "B, C, D, & E"
 Anchor Length 56 Drill Pipe Run 3094 Mud Wt. 9.2
 Top Packer Depth 3279 Drill Collars Run 182 Vis 58
 Bottom Packer Depth 3284 Wt. Pipe Run 0 WL 8.0
 Total Depth 3340 Chlorides 4800 ppm System LCM

Blow Description IF: Fair Blow, 4 inches
IST: NO Blow Back
FF: Fair Blow, BOB in 31 minutes
FST: NO Blow Back

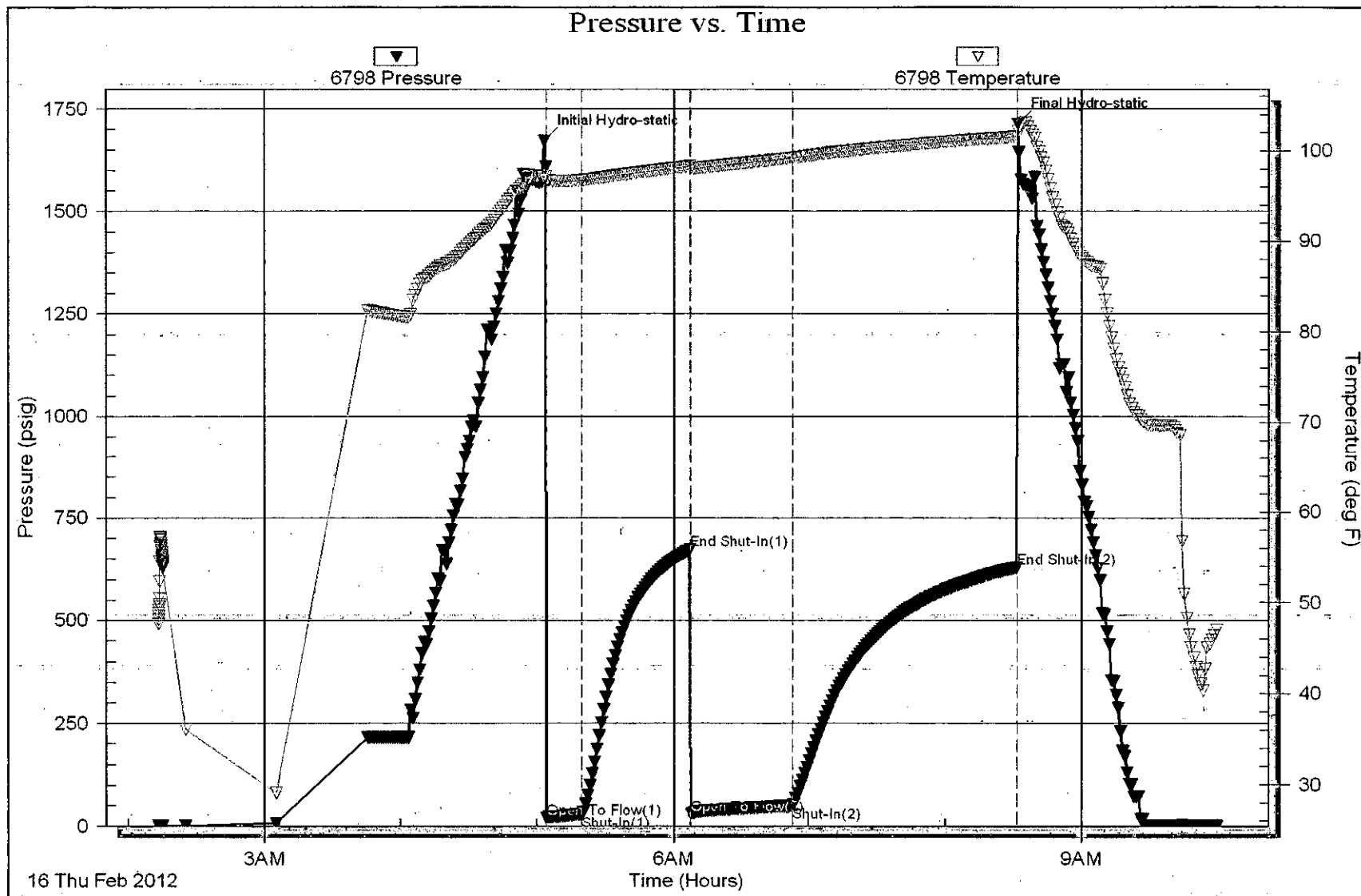
Rec	Feet of	%gas	%oil	%water	%mud
<u>620</u>	<u>CIP</u>				
<u>61</u>	<u>GWCM</u>	<u>2</u>		<u>10</u>	<u>88</u>

Rec Total 61 BHT 102 Gravity N/C API RW .2 @ 31 °F Chlorides 87000 ppm

(A) Initial Hydrostatic <u>1672</u>	<input checked="" type="checkbox"/> Test	T-On Location <u>01:15</u>
(B) First Initial Flow <u>20</u>	<input type="checkbox"/> Jars	T-Started <u>02:13</u>
(C) First Final Flow <u>28</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>05:04</u>
(D) Initial Shut-In <u>673</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>08:31</u>
(E) Second Initial Flow <u>29</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>09:59</u>
(F) Second Final Flow <u>49</u>	<input checked="" type="checkbox"/> Mileage <u>(90)</u>	Comments
(G) Final Shut-In <u>629</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1713</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder	Sub Total
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total	

Approved By [Signature] Our Representative [Signature]

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DRILL STEM TEST REPORT

Herman L Loeb, LLC
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 ATTN: Jon Christensen

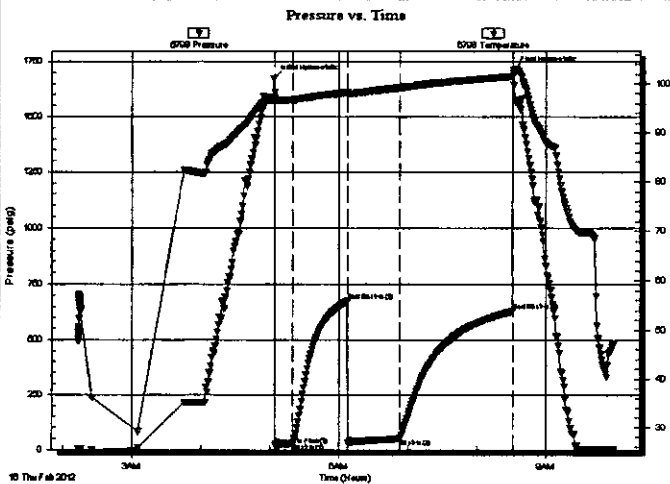
19-20S-13W Barton
Panning 1-19
 Job Ticket: 45753 **DST#: 2**
 Test Start: 2012.02.16 @ 02:13:05

GENERAL INFORMATION:

Formation: **Lansing "B, C, D, &**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: 05:04:20 Tester: **Leal Cason**
 Time Test Ended: 09:59:20 Unit No: **45**
 Interval: **3284.00 ft (KB) To 3340.00 ft (KB) (TVD)** Reference Elevations: **1894.00 ft (KB)**
 Total Depth: **3340.00 ft (KB) (TVD)** **1885.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good** KB to GR/CF: **9.00 ft**

Serial #: 6798 **Inside**
 Press@RunDepth: **49.47 psig @ 3285.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.02.16** End Date: **2012.02.16** Last Calib.: **2012.02.16**
 Start Time: **02:13:05** End Time: **09:59:20** Time On Btm: **2012.02.16 @ 05:03:05**
 Time Off Btm: **2012.02.16 @ 08:31:50**

TEST COMMENT: **IF: Fair Blow, 4 inches**
IS: No Blow Back
FF: Fair Blow, BOB in 31 minutes
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1671.94	97.22	Initial Hydro-static
2	20.19	96.58	Open To Flow (1)
17	28.46	96.73	Shut-In(1)
65	673.43	98.28	End Shut-In(1)
65	28.84	98.05	Open To Flow (2)
110	49.47	99.21	Shut-In(2)
209	629.43	101.55	End Shut-In(2)
209	1713.09	102.16	Final Hydro-static

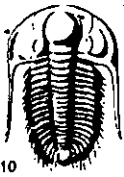
Recovery

Length (ft)	Description	Volume (bbl)
0.00	GP 620 Feet	0.00
61.00	GWCM 2%G 10%W 90%M	0.30

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 45754

Well Name & No. Hanning 1+L9 Test No. 3 Date 02/16/12
 Company Herman L LOEB, LLC Elevation 1894 KB 1885 GL
 Address PO BOX 838 Lawrenceville IL 62439
 Co. Rep / Geo. Jon Christensen Rig STERLING 4
 Location: Sec. 19 Twp. 20S Rge. 13W Co. Barton State KS

Interval Tested 3411' - 3432 Zone Tested KC "I+J"
 Anchor Length 21 Drill Pipe Run 3222 Mud Wt. 9.2
 Top Packer Depth 3406 Drill Collars Run 182 Vis 55
 Bottom Packer Depth 3411 Wt. Pipe Run 0 WL 8.0'
 Total Depth 3432 Chlorides 5000 ppm System LCM

Blow Description IF: Weak Surface Blow
ISF: NO Blow Back
FF: Weak Surface Blow
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Drig Mud</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 2 BHT 103° Gravity N/C API RW N/C @ N/C F Chlorides N/C ppm
 (A) Initial Hydrostatic 1220 Test
 (B) First Initial Flow 18 Jars
 (C) First Final Flow 24 Safety Joint
 (D) Initial Shut-In 188 Circ Sub
 (E) Second Initial Flow 21 Hourly Standby
 (F) Second Final Flow 23 Mileage (90x)
 (G) Final Shut-In 67 Sampler
 (H) Final Hydrostatic 1649 Straddle

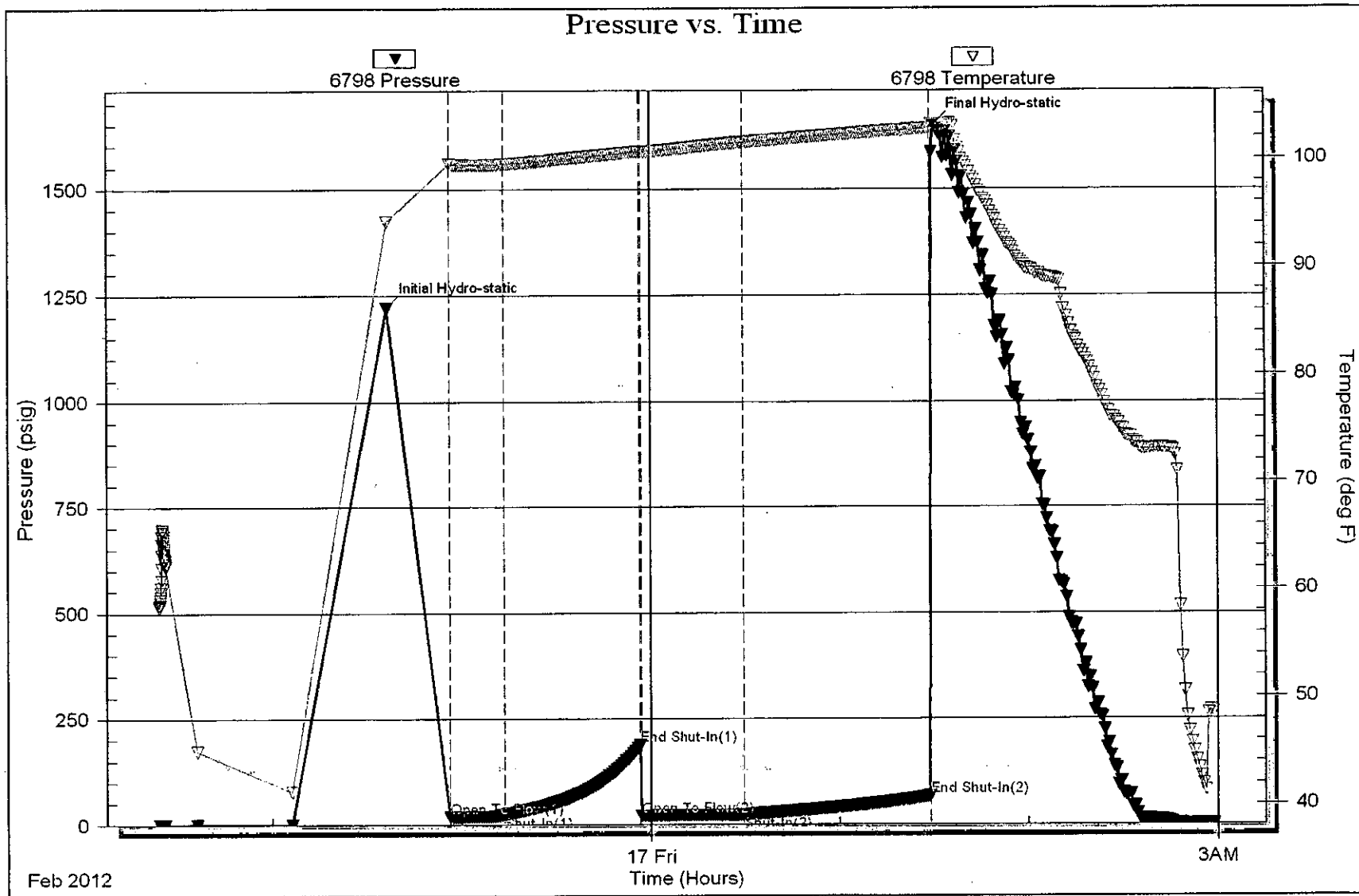
T-On Location 20:45
 T-Started 21:24
 T-Open 22:56
 T-Pulled 01:28
 T-Out 02:59

Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies

Initial Open 15
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 60
 Sub Total _____
 Total _____
 MP/DST Disc't _____

Approved By [Signature] Our Representative [Signature]

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DRILL STEM TEST REPORT

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

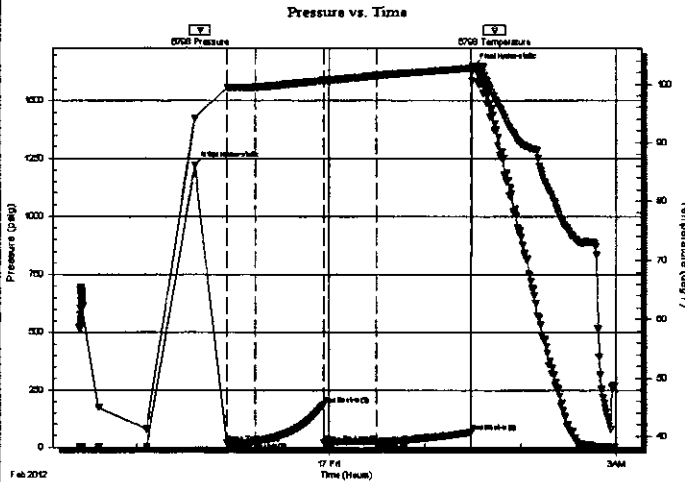
19-20S-13W Barton
Panning 1-19
Job Ticket: 45754 **DST#: 3**
Test Start: 2012.02.16 @ 21:24:08

GENERAL INFORMATION:

Formation: **KC "I & J"**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 22:56:08
Time Test Ended: 02:59:08
Interval: **3411.00 ft (KB) To 3432.00 ft (KB) (TVD)**
Total Depth: **3432.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole (Reset)**
Tester: **Leal Cason**
Unit No: **45**
Reference Elevations: **1894.00 ft (KB)**
1885.00 ft (CF)
KB to GR/CF: **9.00 ft**

Serial #: 6798 **Inside**
Press@RunDepth: **23.32 psig @ 3412.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2012.02.16** End Date: **2012.02.17** Last Calib.: **2012.02.17**
Start Time: **21:24:08** End Time: **02:59:08** Time On Btm: **2012.02.16 @ 22:36:08**
Time Off Btm: **2012.02.17 @ 01:30:08**

TEST COMMENT: IF: Weak Surface Blow
IS: No Blow Back
FF: Weak Surface Blow
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1220.62	94.15	Initial Hydro-static
20	18.22	99.48	Open To Flow (1)
38	24.20	99.49	Shut-In(1)
81	188.03	100.64	End Shut-In(1)
81	20.77	100.58	Open To Flow (2)
114	23.32	101.47	Shut-In(2)
173	67.34	102.76	End Shut-In(2)
174	1649.41	103.14	Final Hydro-static

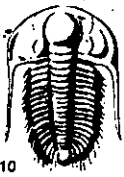
Recovery

Length (ft)	Description	Volume (bbl)
2.00	DRLG Mud	0.01

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 45755

4/10

Well Name & No. Panning 1-19 Test No. 4 Date 02/17/12
 Company Herman L Loeb LLC Elevation 1894 KB 1885 GL
 Address PO BOX 838 Lawrenceville, IL 62439
 Co. Rep/Geo. Jon Christensen Rig Sterling 4
 Location: Sec. 19 Twp. 20S Rge. 13W Co. Barton State KS

Interval Tested 3516 - 3538 Zone Tested Arbuckle
 Anchor Length 22 Drill Pipe Run 3319 Mud Wt. 9.2
 Top Packer Depth 3511 Drill Collars Run 177 Vis 61
 Bottom Packer Depth 3518 Wt. Pipe Run 0 WL 8.8
 Total Depth 3538 Chlorides 5000 ppm System LCM

Blow Description IF: Fair Blow, 3 1/2 inches
IST: NO Blow Back
FF: NO BLOW, Flushed TOOL, Fair Blow, Built to 10 inches
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>OCM</u>	<u>15</u>		<u>85</u>	
<u>120</u>	<u>OCM</u>	<u>12</u>		<u>88</u>	
<u>60</u>	<u>60CM</u>	<u>5</u>	<u>10</u>	<u>85</u>	

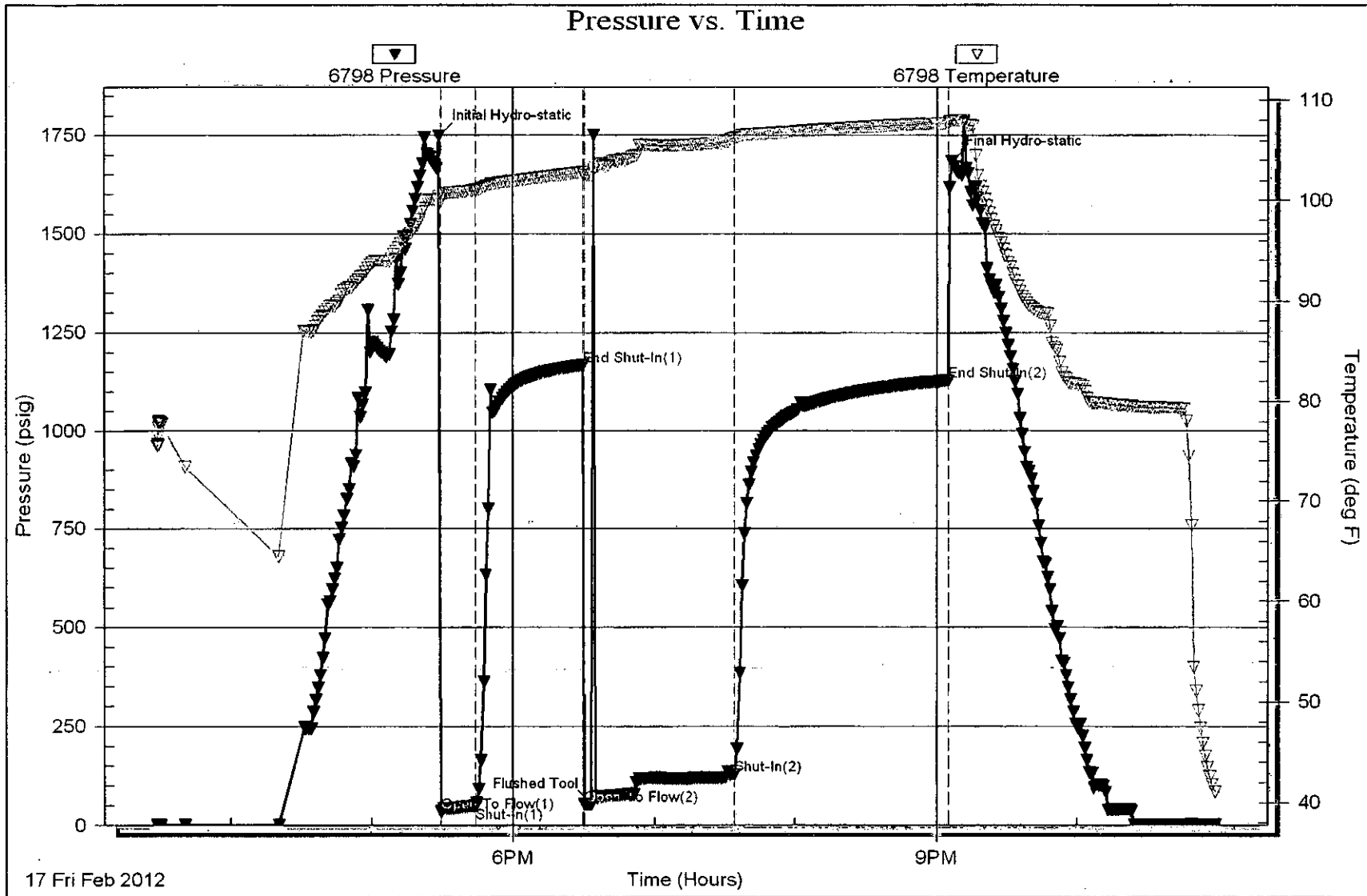
Rec Total 230 BHT 107° Gravity N/C API RW N/C @ N/C °F Chlorides N/C ppm

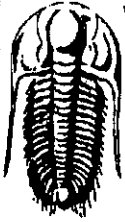
(A) Initial Hydrostatic 1747 Test 14:45 T-On Location
 (B) First Initial Flow 33 Jars 15:28 T-Started
 (C) First Final Flow 49 Safety Joint 17:28 T-Open
 (D) Initial Shut-In 1166 Circ Sub 21:04 T-Pulled
 (E) Second Initial Flow 52 Hourly Standby 22:58 T-Out
 (F) Second Final Flow 128 Mileage (90) Comments
 (G) Final Shut-In 1127 Sampler
 (H) Final Hydrostatic 1683 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies

Initial Open 15 Extra Recorder
 Initial Shut-In 45 Day Standby
 Final Flow 60 Accessibility
 Final Shut-In 90 Sub Total
 Sub Total

Approved By [Signature] Our Representative [Signature]

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

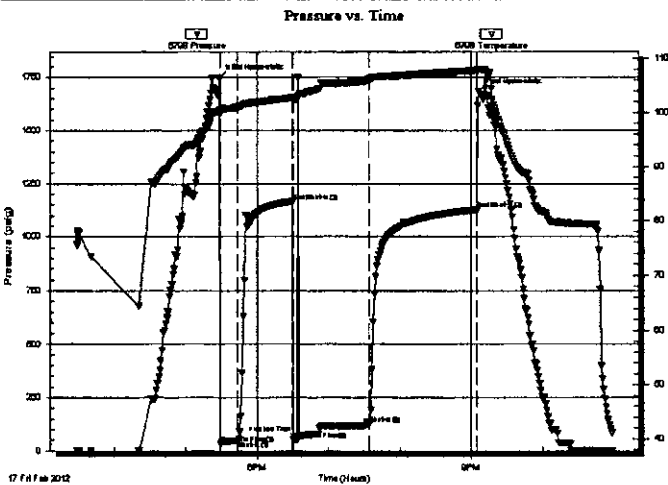
19-20S-13W Barton
Panning 1-19
 Job Ticket: 45755 **DST#: 4**
 Test Start: 2012.02.17 @ 15:28:25

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: 17:28:55
 Tester: **Leal Cason**
 Time Test Ended: 22:58:40
 Unit No: **45**
 Interval: **3516.00 ft (KB) To 3538.00 ft (KB) (TVD)**
 Reference Elevations: **1894.00 ft (KB)**
 Total Depth: **3538.00 ft (KB) (TVD)**
 1885.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 KB to GR/CF: **9.00 ft**

Serial #: 6798 **Inside**
 Press@RunDepth: **127.63 psig @ 3517.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2012.02.17** End Date: **2012.02.17** Last Calib.: **2012.02.17**
 Start Time: **15:28:25** End Time: **22:58:40** Time On Btrr: **2012.02.17 @ 17:28:10**
 Time Off Btrr: **2012.02.17 @ 21:06:10**

TEST COMMENT: IF: Fair Blow, 3 1/2 inches
 IS: No Blow Back
 FF: No Blow, Flushed Tool, Fair Blow, Built to 10 inches
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1747.12	100.44	Initial Hydro-static
1	33.16	99.99	Open To Flow (1)
16	48.58	101.00	Shut-In(1)
62	1166.32	102.82	End Shut-In(1)
63	51.87	102.52	Open To Flow (2)
65	52.99	102.54	Flushed Tool
126	127.63	106.20	Shut-In(2)
217	1127.47	107.74	End Shut-In(2)
218	1682.83	107.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM 5%G 10%O 85%M	0.30
120.00	OCM 12%O 88%M	0.59
50.00	OCM 15%O 85%M	0.68

Gas Rates

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

* Recovery from multiple tests