



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bow Creek Oil Co.
1304 Eisenhower Rd
Hays, KS 67601
ATTN:

25-1S-35W Rawlins, KS

Skolout #1-25

Job Ticket: 60889

DST#: 1

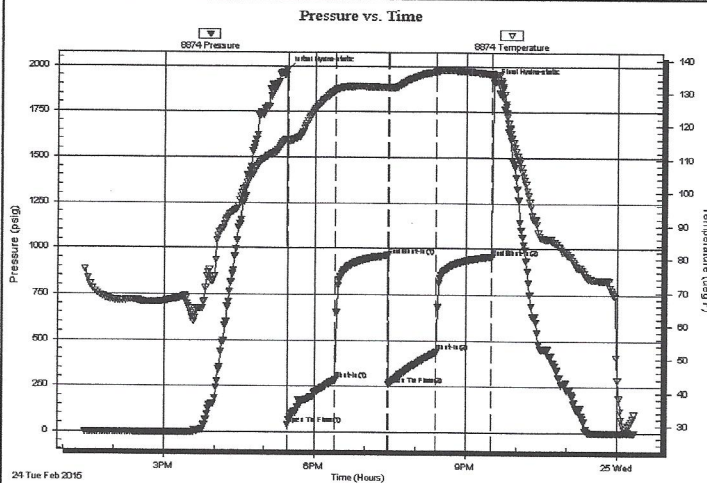
Test Start: 2015.02.24 @ 13:25:00

GENERAL INFORMATION:

Formation: **LKC "B"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:27:00
 Time Test Ended: 00:19:30
 Interval: **4048.00 ft (KB) To 4120.00 ft (KB) (TVD)**
 Total Depth: 4120.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Mack
 Unit No: 82
 Reference Elevations: 3104.00 ft (KB)
 3094.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8874 Inside
 Press@RunDepth: 439.35 psig @ 4049.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.02.24 End Date: 2015.02.25 Last Calib.: 2015.02.25
 Start Time: 13:25:00 End Time: 00:19:30 Time On Btm: 2015.02.24 @ 17:25:30
 Time Off Btm: 2015.02.24 @ 21:32:00

TEST COMMENT: 60 - IF- BoB in 11 min.
 60 - IS- No Return
 60 - FF- BoB in 15 min.
 60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1978.12	115.85	Initial Hydro-static
2	40.84	115.26	Open To Flow (1)
59	284.60	130.67	Shut-In(1)
120	962.09	131.63	End Shut-In(1)
122	262.87	131.35	Open To Flow (2)
179	439.35	136.39	Shut-In(2)
245	956.60	135.73	End Shut-In(2)
247	1915.29	135.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
439.00	OSMW 5M 95W (oil spots)	5.60
200.00	GOCMW 15G 5o 30M 50W	2.81
315.00	GOCWM 10G 15o 35W 40M	4.42
30.00	GMCWO 10G 15M 25W 50o	0.42

Gas Rates

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

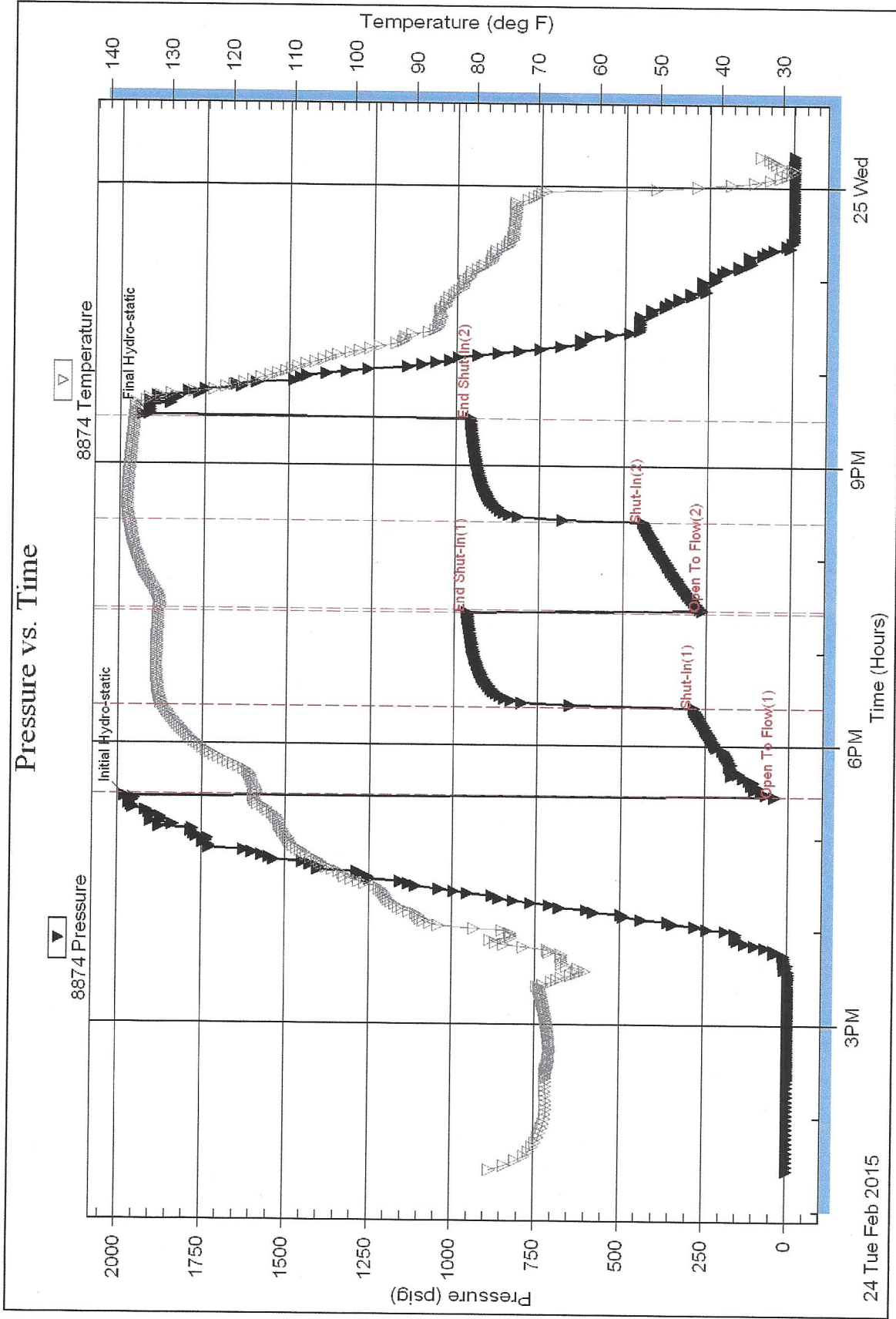
Serial #: 8874

Inside

Bow Creek Oil Co.

Skolout #1-25

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60089

4/10

Well Name & No. Skolout # 1-25 Test No. 1 Date 2-24-15
 Company Brown Creek Oil Co. Elevation 3104 KB 3094 GL
 Address 3044 Eisenhower Rd Hays, KS 67601
 Co. Rep / Geo. _____ Rig Van #7
 Location: Sec. 25 Twp. 1S Rge. 35W Co. Rawlins State KS

Interval Tested 4120-4120 Zone Tested 4K "B"
 Anchor Length 72' Drill Pipe Run 3987 Mud Wt. 9.1
 Top Packer Depth 4044 Drill Collars Run 61' Vis 39
 Bottom Packer Depth 4048 Wt. Pipe Run 0 WL 12
 Total Depth 4120 Chlorides 1,200 ppm System LCM 8#
 Blow Description IF - BoB in 11 min.
ISI - No Return
FF - BoB in 15 min.
FSI -

Rec	Feet of			%gas	%oil	%water	%mud
<u>30'</u>	<u>GMCWCS</u>	<u>15</u>	<u>7.5</u>	<u>18</u>	<u>50</u>	<u>25</u>	<u>15</u>
<u>315</u>	<u>GDCGM</u>	<u>47.5</u>	<u>126.78</u>	<u>10</u>	<u>15</u>	<u>35</u>	<u>40</u>
<u>200</u>	<u>GOCMW</u>	<u>10</u>	<u>100</u>	<u>15</u>	<u>5</u>	<u>50</u>	<u>30</u>
<u>439</u>	<u>DSMW</u>	<u>417</u>			<u>50%</u>	<u>95</u>	<u>5</u>
		<u>72.5</u>	<u>6.51</u>	<u>723</u>			
Rec Total	<u>984</u>	BHT <u>136</u>	Gravity _____	API RW <u>0.19</u>	@ <u>35</u> °F	Chlorides <u>85,000</u>	ppm

(A) Initial Hydrostatic 1978 Test _____ T-On Location 1:00 PM
 (B) First Initial Flow 40 Jars _____ T-Started 1:25 PM
 (C) First Final Flow 284 Safety Joint _____ T-Open 5:25 PM
 (D) Initial Shut-In 962 Circ Sub _____ T-Pulled 9:25 PM
 (E) Second Initial Flow 262 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 439 Mileage 90 RT X2 Comments Came out at 7:00 AM
 (G) Final Shut-In 956 Sampler _____ Rig was broke down during
 (H) Final Hydrostatic 1915 Straddle _____ shut + rig. Went home to wait
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total _____
 Initial Open 60
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 60
 Sub Total _____
 Total _____
 MP/DST Disc't _____

Approved By _____ 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.

12



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bow Creek Oil Co.

25-1S-35W Rawlins, KS

1304 Eisenhower Rd
Hays, KS 67601

Skolout #1-25

ATTN: Tony Stroup

Job Ticket: 60890

DST#: 2

Test Start: 2015.02.25 @ 11:13:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:40:30

Time Test Ended: 19:44:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: **4104.00 ft (KB) To 4160.00 ft (KB) (TVD)**

Total Depth: 4160.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 3104.00 ft (KB)

3094.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8874

Inside

Press@RunDepth: 351.19 psig @ 4105.00 ft (KB)

Start Date: 2015.02.25

End Date: 2015.02.25

Capacity: 8000.00 psig

Start Time: 11:13:00

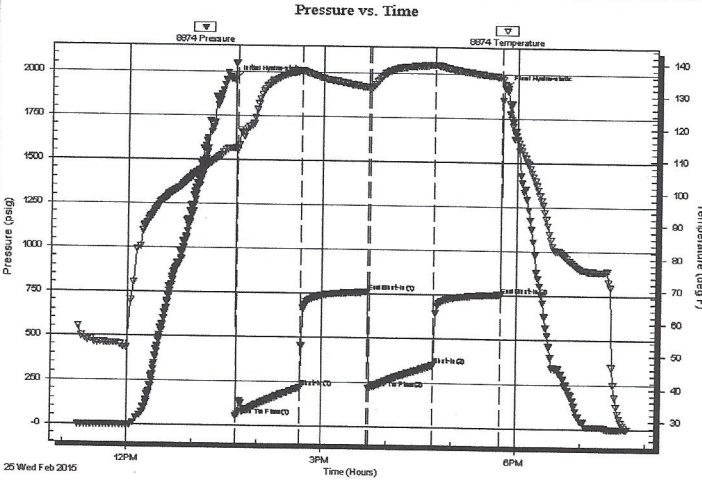
End Time: 19:44:30

Last Calib.: 2015.02.25

Time On Btm: 2015.02.25 @ 13:38:00

Time Off Btm: 2015.02.25 @ 17:48:30

TEST COMMENT: 60 - IF- BoB in 15 min.
60 - IS- No Return
60 - FF- BoB in 22 min
60 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1954.99	112.99	Initial Hydro-static
3	52.15	112.59	Open To Flow (1)
62	218.01	137.17	Shut-In(1)
124	759.89	132.29	End Shut-In(1)
126	218.61	131.70	Open To Flow (2)
186	351.19	139.36	Shut-In(2)
247	752.60	135.85	End Shut-In(2)
251	1921.22	133.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (heavy) 100M	0.02
307.00	OSMW 5M 95W (oil spots)	3.80
126.00	OSMW 10M 90W (oil spots)	1.77
126.00	OSMW 30M 70W (oil spots)	1.77
103.00	OCWM 5o 25W 75M	1.44

Gas Rates

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

Serial #: 8874

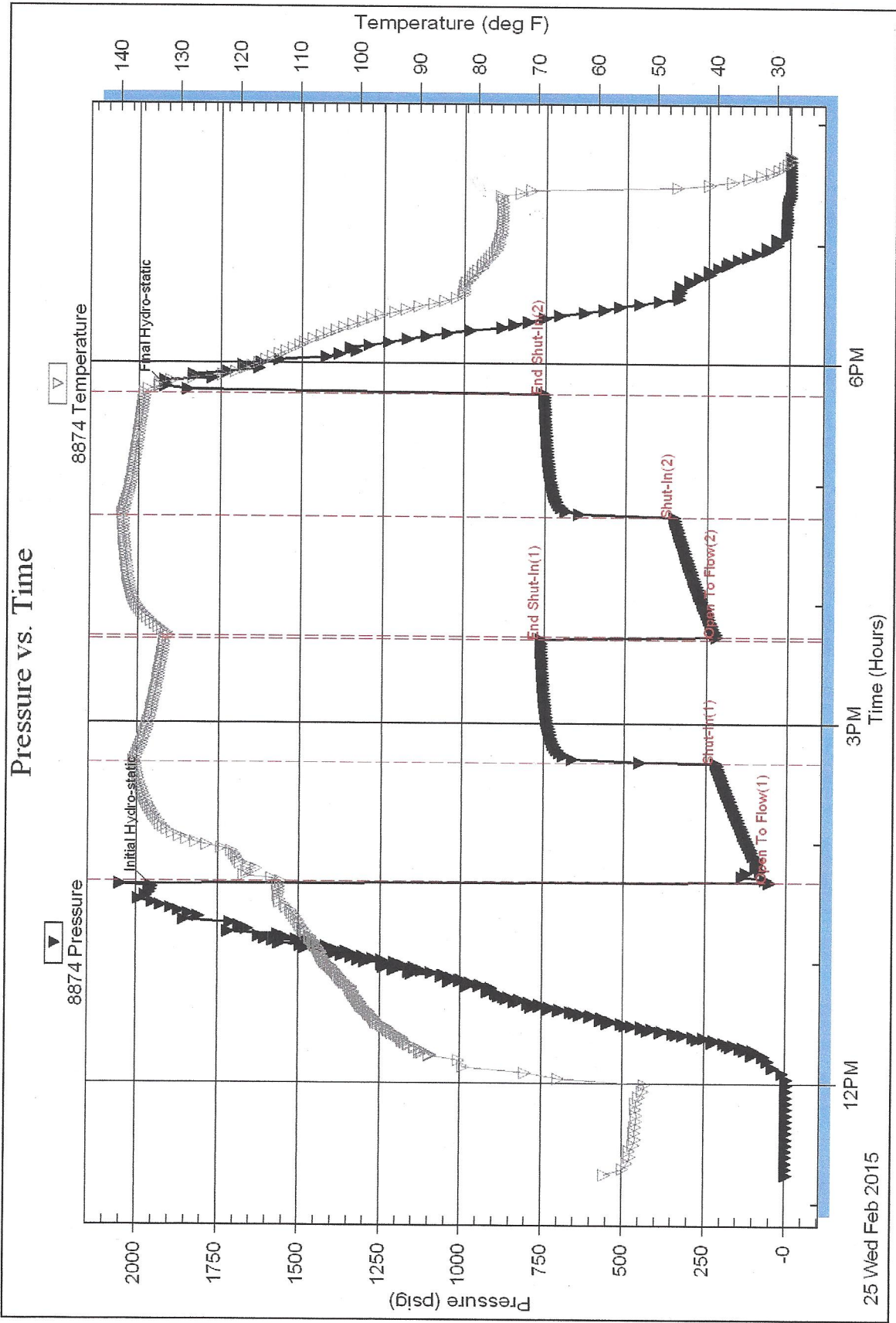
Inside

Bow Creek Oil Co.

Skolout #1-25

DST Test Number: 2

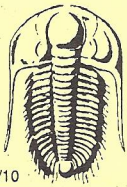
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 60890

Printed: 2015.02.25 @ 19:56:28



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60890

4/10

Well Name & No. Skolout # 125 Test No. 2 Date _____
 Company Bow Creek Oil Co. Elevation 3104 KB 3094 GL _____
 Address 1304 Eisenhower Rd. Hays, KS 67601
 Co. Rep / Geo. Tony Stroup Rig Unit #17
 Location: Sec. 25 Twp. 15 Rge. 35 W Co. Rawlins State KS

Interval Tested 4104-4160 Zone Tested LKC "C"
 Anchor Length 56' Drill Pipe Run 4023 Mud Wt. 9.3
 Top Packer Depth 4100 Drill Collars Run 61 Vis 50
 Bottom Packer Depth 4104 Wt. Pipe Run 0 WL 7.6
 Total Depth 4160 Chlorides 1200 ppm System LCM 12#
 Blow Description IF - BoBin 15 min
ISI -
FF -
FST -

Rec	Feet of	%gas	%oil	%water	%mud
<u>400103</u>	<u>OCW</u>	<u>5</u>	<u>20</u>	<u>75</u>	
<u>126</u>	<u>OS MW</u>	<u>SPOTS</u>	<u>70</u>	<u>30</u>	
<u>125</u>	<u>OS MW</u>	<u>SPOTS</u>	<u>90</u>	<u>10</u>	
<u>307</u>	<u>OS MW</u>	<u>SPOTS</u>	<u>95</u>	<u>5</u>	
<u>5</u>	<u>Mud Column</u>			<u>100</u>	
Rec Total <u>667</u>	BHT <u>136</u>	Gravity <u>-</u>	API RW <u>.18</u>	@ <u>40</u> °F Chlorides <u>75,000</u> ppm	

(A) Initial Hydrostatic 1954 Test _____ T-On Location 11:00 AM
 (B) First Initial Flow 52 Jars _____ T-Started 11:13 AM
 (C) First Final Flow 218 Safety Joint _____ T-Open 1:30 PM
 (D) Initial Shut-In 759 Circ Sub _____ T-Pulled 5:30 PM
 (E) Second Initial Flow 218 Hourly Standby _____ T-Out 7:30 PM
 (F) Second Final Flow 351 Mileage 90 RT Comments _____
 (G) Final Shut-In 752 Sampler _____
 (H) Final Hydrostatic 1921 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total _____
 Initial Open 60
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 60
 Sub Total _____
 Total _____
 MP/DST Disc't _____

Approved By _____ Our Representative _____

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Bow Creek Oil Co.

25-1S-35W Rawlins, KS

1304 Eisenhower Rd
Hays, KS 67601

Skolout #1-25

Job Ticket: 60891

DST#: 3

ATTN: Tony Stroup

Test Start: 2015.02.26 @ 09:07:00

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:09:30

Time Test Ended: 17:50:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: **4216.00 ft (KB) To 4240.00 ft (KB) (TVD)**

Total Depth: 4240.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 3104.00 ft (KB)

3094.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8874

Press@RunDepth: 31.96 psig @ ft (KB)

Start Date: 2015.02.26

End Date: 2015.02.26

Start Time: 09:07:00

End Time: 17:50:30

Capacity: 8000.00 psig

Last Calib.: 2015.02.26

Time On Btm: 2015.02.26 @ 12:07:30

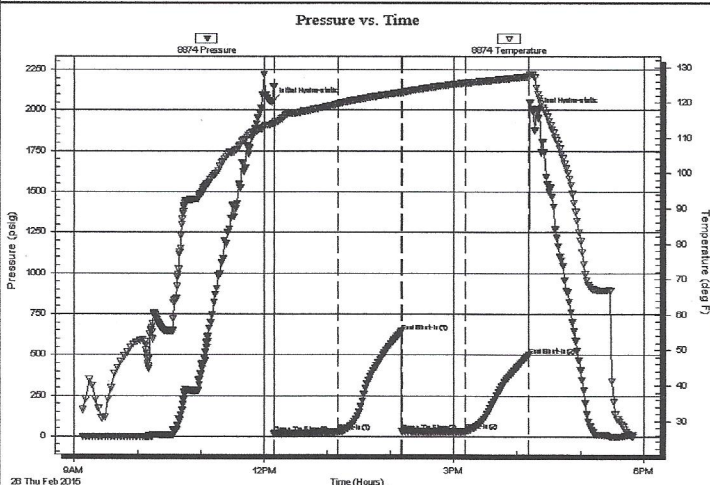
Time Off Btm: 2015.02.26 @ 16:14:00

TEST COMMENT: 60 - IF- Surface Blow built to 1 1/2"

60 - IS- No Return

60 - FF- Surface Blow started at 4 min. Did not build or die.

60 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2052.03	113.83	Initial Hydro-static
2	19.05	113.72	Open To Flow (1)
63	27.08	119.60	Shut-In(1)
123	642.78	122.88	End Shut-In(1)
123	30.79	122.69	Open To Flow (2)
183	31.96	125.62	Shut-In(2)
243	498.38	127.37	End Shut-In(2)
247	1996.83	128.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	VSOCM 2o 98M	0.20

Gas Rates

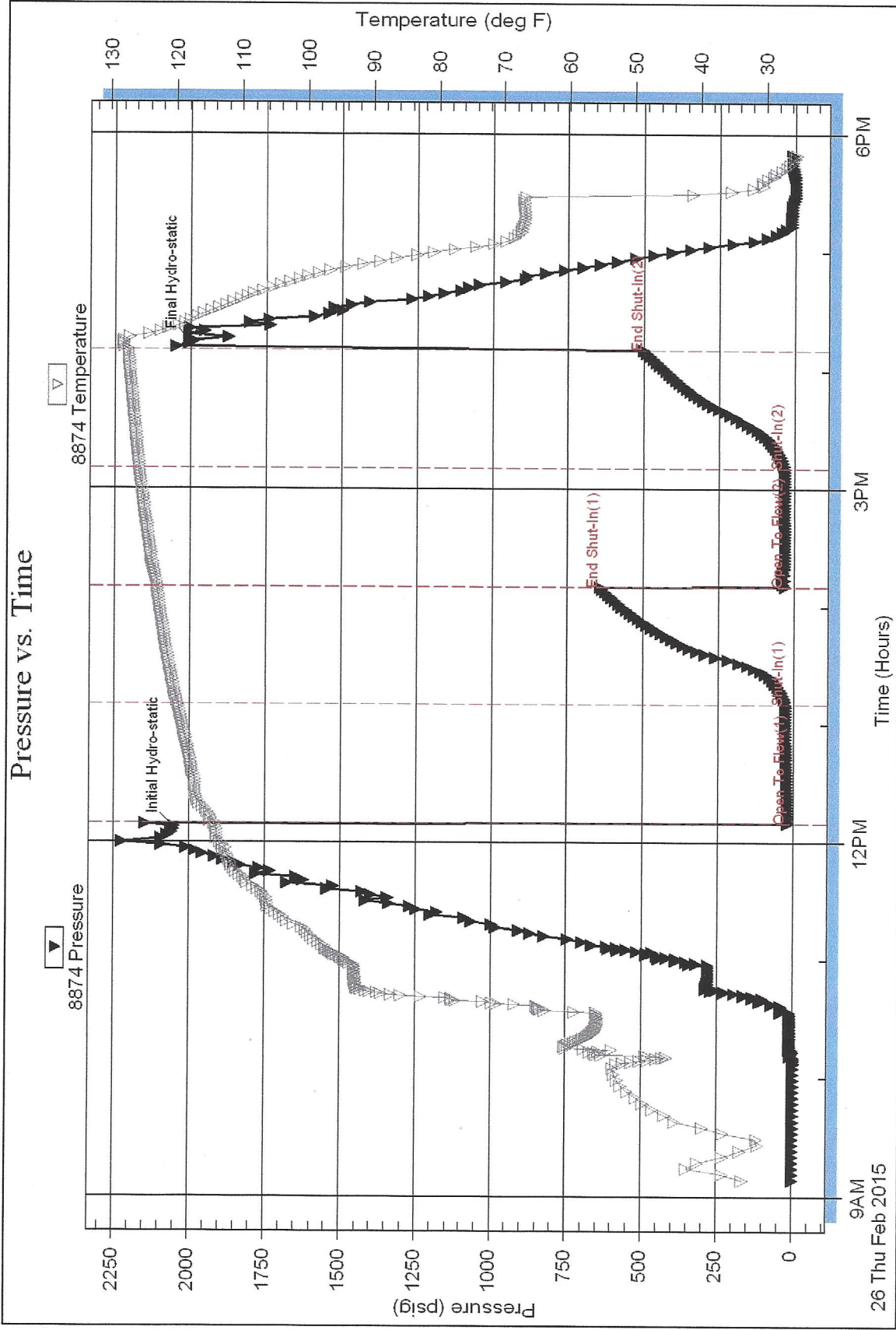
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Serial #: 8874

Bow Creek Oil Co.

Skolout #1-25

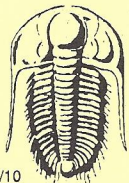
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 60891

Printed: 2015.02.26 @ 17:57:04



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60391

4/10

Well Name & No. Skidder #125 Test No. 3 Date 2-26-15
 Company East Creek Oil Co. Elevation 3100 KB 30094 GL
 Address 1241 Eisenhower Rd. Hays, KS 67601
 Co. Rep / Geo. Tony Stroup Rig Val #7
 Location: Sec. 25 Twp. 1S Rge. 35 W Co. Rawlins State KS

Interval Tested 4216-4240 Zone Tested LKC "E"
 Anchor Length 24' Drill Pipe Run 4147' Mud Wt. 9.3
 Top Packer Depth 4212 Drill Collars Run 61' Vis 500
 Bottom Packer Depth 4216 Wt. Pipe Run 10 WL 7.6
 Total Depth 4240 Chlorides 1200 ppm System LCM 2#
 Blow Description TF - Surface Blow built to 1 1/2"
TSI - No Return
FF - Surface Blow started at 4 min. Did not build up after.
ISI - No Return

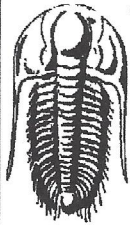
Rec	Feet of	%gas	%oil	%water	%mud
<u>405</u>	<u>USORM</u>	<u>2</u>		<u>97</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40 BHT 127 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 2052 Test - T-On Location 9:00 AM
 (B) First Initial Flow 19 Jars - T-Started 9:07 AM
 (C) First Final Flow 27 Safety Joint - T-Open 12:10 PM
 (D) Initial Shut-In 642 Circ Sub - T-Pulled 4:10 PM
 (E) Second Initial Flow 30 Hourly Standby - T-Out 5:50 PM
 (F) Second Final Flow 31 Mileage 90 FT Comments -
 (G) Final Shut-In 402 Sampler -
 (H) Final Hydrostatic 1996 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies KG
 Extra Recorder start at KG Sub Total 6131
 Day Standby 705, 960 Total 6131
 Accessibility 705, 960 MP/DST Disc't -
 Sub Total -

Approved By _____ Our Representative _____

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bow Creek Oil Co.

25-1S-35W Rawlins, KS

1304 Eisenhower Rd
Hays, KS 67601

Skolout #1-25

Job Ticket: 60892

DST#: 4

ATTN: Tony Stroup

Test Start: 2015.02.28 @ 23:02:00

GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:40:30

Time Test Ended: 10:13:00

Test Type: Conventional Straddle (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 4654.00 ft (KB) To 4677.00 ft (KB) (TVD)

Reference Elevations: 3104.00 ft (KB)

Total Depth: 4759.00 ft (KB) (TVD)

3094.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8874 Inside

Press@RunDepth: 45.92 psig @ 4655.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.02.28

End Date: 2015.03.01

Last Calib.: 2015.03.01

Start Time: 23:02:00

End Time: 10:13:00

Time On Btm: 2015.03.01 @ 03:38:30

Time Off Btm: 2015.03.01 @ 07:12:30

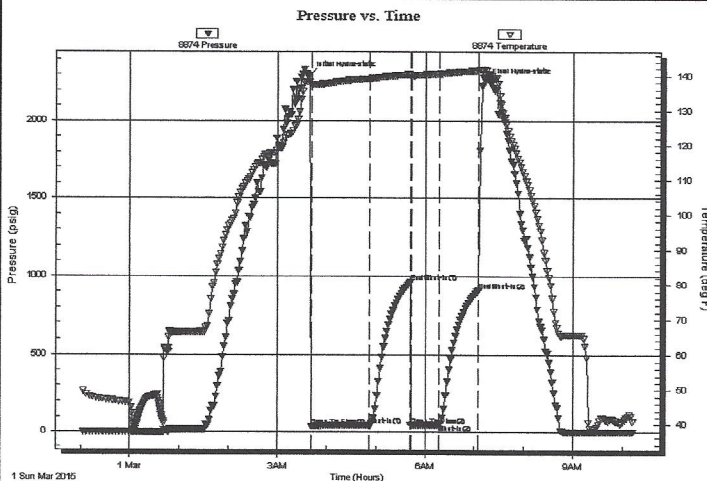
TEST COMMENT: 60 - IF- 1/2" Blow built to 1 1/4". Then died back to 1"

60 - IS- No Return

30 - FF- No Blow

30 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2296.18	138.30	Initial Hydro-static
2	36.16	137.45	Open To Flow (1)
74	42.47	139.22	Shut-In(1)
123	961.58	140.38	End Shut-In(1)
124	44.13	140.11	Open To Flow (2)
158	45.92	140.56	Shut-In(2)
206	910.68	141.51	End Shut-In(2)
214	2257.17	141.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100M	0.15

Gas Rates

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

Serial #: 8874

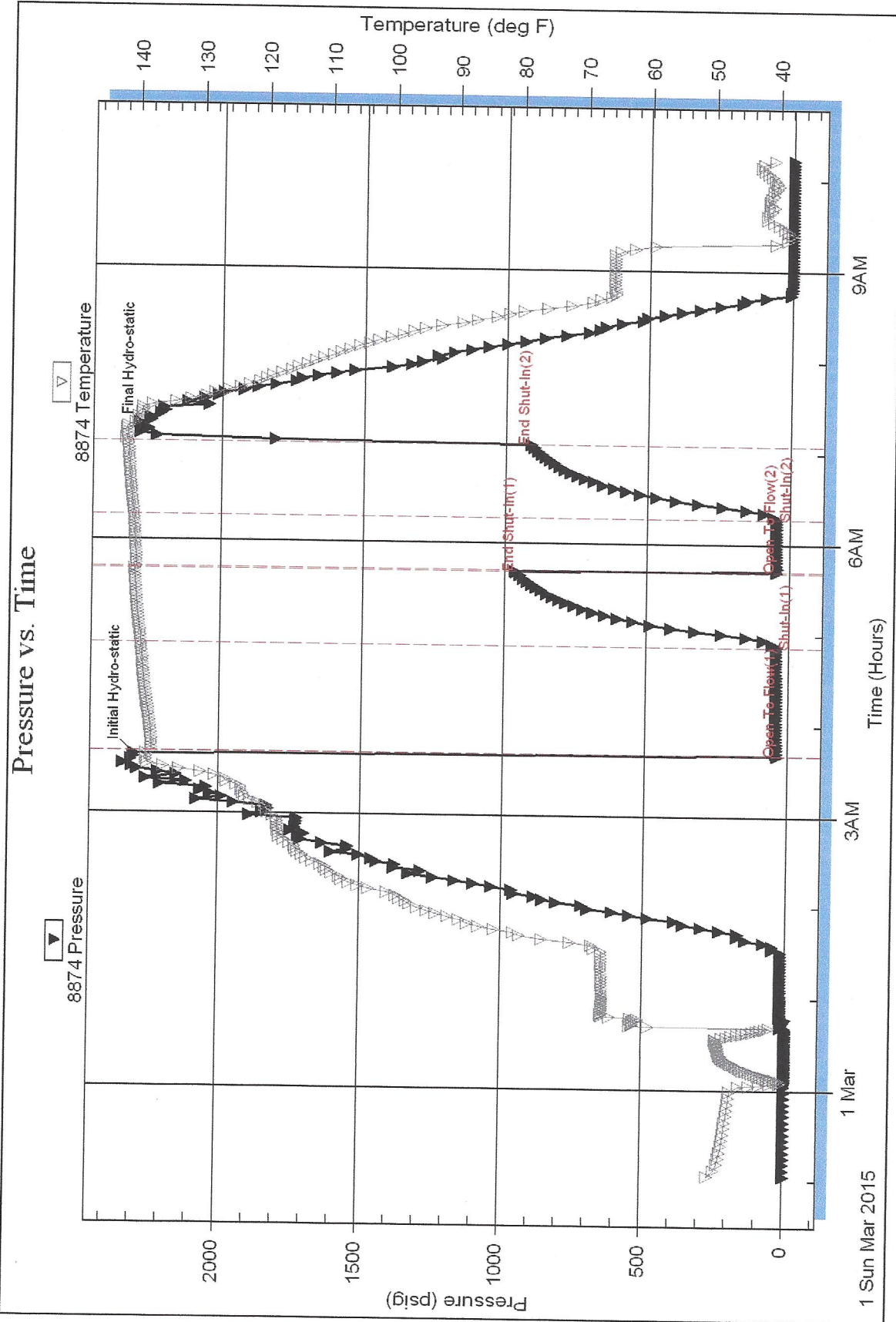
Inside

Bow Creek Oil Co.

Skolout #1-25

DST Test Number: 4

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 60892

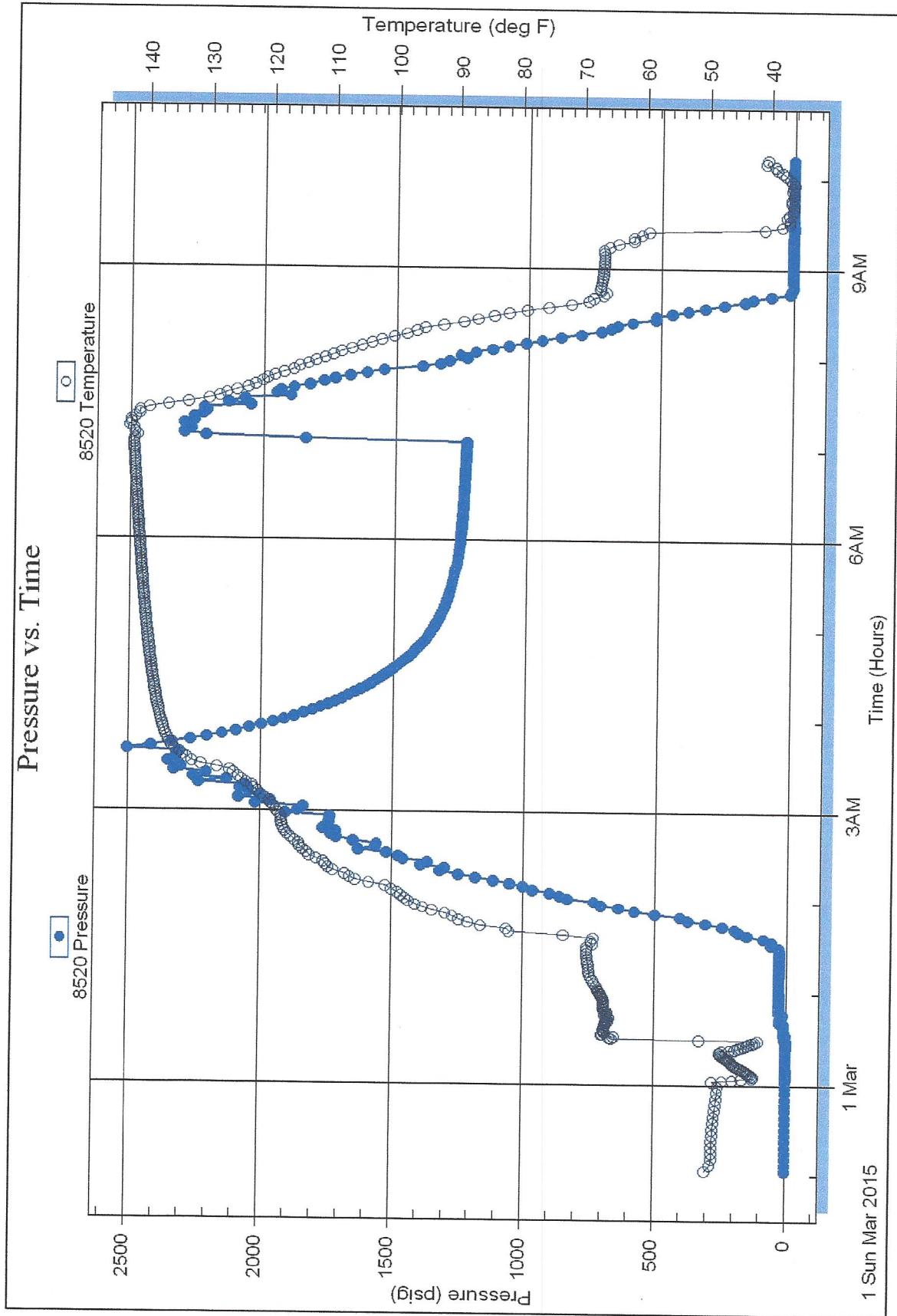
Printed: 2015.03.01 @ 10:23:07

Serial #: 8520

Below (Str. #) Stratton Creek Oil Co.

Skolout #1-25

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 60892

Well Name & No. SKOLOUT #125 Test No. 4 Date 2-28-15
 Company Bow Creek Oil Co. Elevation 3104 KB 3094 GL
 Address 1304 Eisenhower Rd. Hays, KS 67601
 Co. Rep / Geo. Tony Stroup Rig Val #7
 Location: Sec. 25 Twp. 1S Rge. 35W Co. Rainier State KS

Interval Tested 4654-4677 Zone Tested Johnson
 Anchor Length 23' Drill Pipe Run 7586 Mud Wt. 9.4
 Top Packer Depth 4650 Drill Collars Run 61' Vis 50
 Bottom Packer Depth 4654 - Straddle Packer -> 4677 Wt. Pipe Run 0 WL 8
 Total Depth 4759' Chlorides 12000 ppm System LCM 10#
 Blow Description IF - 1/2 Blow bit 70 1/4" Then d-a back to 1"
ISI - NO Return
FF - NO Blow
FSL - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud</u>			<u>100</u>	

Rec Total 300 BHT _____ Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2296</u>	<input checked="" type="checkbox"/> Test _____	T-On Location <u>11:00 PM</u>
(B) First Initial Flow <u>36</u>	<input checked="" type="checkbox"/> Jars _____	T-Started <u>11:02 PM</u>
(C) First Final Flow <u>42</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>3:40 AM</u>
(D) Initial Shut-In <u>961</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>6:40 AM</u>
(E) Second Initial Flow <u>44</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>10:13 AM</u>
(F) Second Final Flow <u>45</u>	<input checked="" type="checkbox"/> Mileage <u>90 RT</u>	Comments _____
(G) Final Shut-In <u>910</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2257</u>	<input checked="" type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> Ruined Shale Packer _____
	<input checked="" type="checkbox"/> Shale Packer <u>X2</u>	<input checked="" type="checkbox"/> Ruined Packer _____
Initial Open <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total _____
Final Flow <u>36</u>	<input type="checkbox"/> Day Standby _____	Total _____
Final Shut-In <u>30</u>	<input checked="" type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total _____	

Approved By _____ Our Representative

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