

DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas Corp**

Box 837
Russell KS 67665

ATTN: Brad Hutchinson

Cook #1

34-12s-12w Russell,KS

Start Date: 2017.03.24 @ 11:55:02

End Date: 2017.03.24 @ 17:47:53

Job Ticket #: 58124 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.03.27 @ 13:42:16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prospect Oil & Gas Corp

34-12s-12w Russell,KS

Box 837
Russell KS 67665

Cook #1

Job Ticket: 58124

DST#: 1

ATTN: Brad Hutchinson

Test Start: 2017.03.24 @ 11:55:02

GENERAL INFORMATION:

Formation: **LKC B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:28:23

Time Test Ended: 17:47:53

Test Type: Conventional Bottom Hole (Initial)

Tester: Paul Simpson

Unit No: 73

Interval: 2893.00 ft (KB) To 2949.00 ft (KB) (TVD)

Reference Elevations: 1679.00 ft (KB)

Total Depth: 2940.00 ft (KB) (TVD)

1673.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 6.00 ft

Serial #: 8524 Outside

Press@RunDepth: 32.31 psig @ 2899.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.24

End Date:

2017.03.24

Last Calib.: 1899.12.30

Start Time: 11:55:03

End Time:

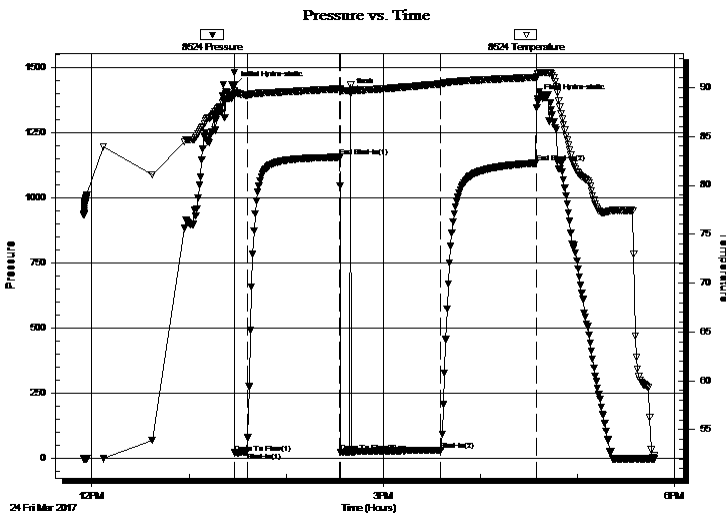
17:47:53

Time On Btm: 2017.03.24 @ 13:27:53

Time Off Btm: 2017.03.24 @ 16:35:23

TEST COMMENT: IF 5 tool slid 4' before opening and 4' after opening 2" blow building slightly
ISI-60
FF 60 no blow flush tool very weak surface 30 minutes later
FSI 60

PRESSURE SUMMARY



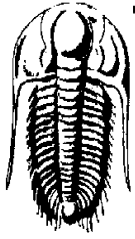
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1431.88	89.63	Initial Hydro-static
1	22.27	89.31	Open To Flow (1)
8	23.90	89.22	Shut-In(1)
66	1155.49	89.86	End Shut-In(1)
66	24.11	89.64	Open To Flow (2)
72	1401.96	90.25	flush
128	32.31	90.36	Shut-In(2)
187	1132.98	91.03	End Shut-In(2)
188	1379.86	91.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	mud w ith oil spots in tool	0.49

Gas Rates

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



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TESTING, INC.**

DRILL STEM TEST REPORT

Prospect Oil & Gas Corp

34-12s-12w Russell,KS

Box 837
Russell KS 67665

Cook #1

Job Ticket: 58124

DST#: 1

ATTN: Brad Hutchinson

Test Start: 2017.03.24 @ 11:55:02

GENERAL INFORMATION:

Formation: **LKC B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:28:23

Time Test Ended: 17:47:53

Test Type: Conventional Bottom Hole (Initial)

Tester: Paul Simpson

Unit No: 73

Interval: 2893.00 ft (KB) To 2949.00 ft (KB) (TVD)

Total Depth: 2940.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1679.00 ft (KB)

1673.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 6838

Inside

Press@RunDepth: psig @ 2899.00 ft (KB)

Start Date: 2017.03.24

End Date:

2017.03.24

Start Time: 11:55:42

End Time:

17:49:17

Capacity: 8000.00 psig

Last Calib.:

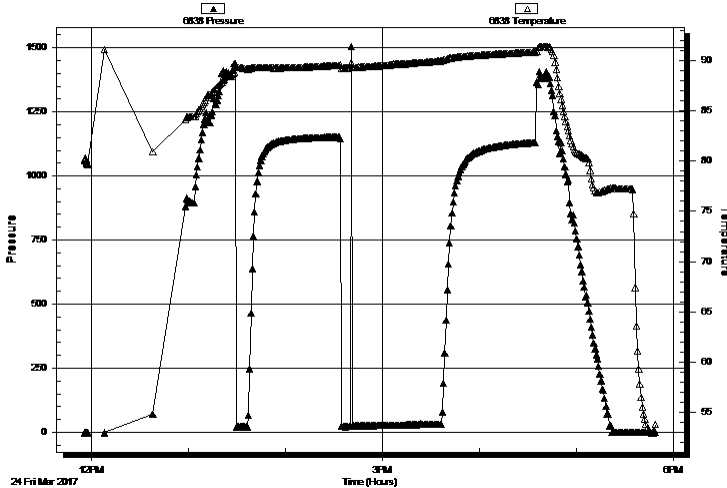
1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF 5 tool slid 4' before opening and 4' after opening 2" blow building slightly
ISI-60
FF 60 no blow flush tool very weak surface 30 minutes later
FSI 60

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	mud with oil spots in tool	0.49

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas Corp

34-12s-12w Russell,KS

Box 837
Russell KS 67665

Cook #1

Job Ticket: 58124

DST#: 1

ATTN: Brad Hutchinson

Test Start: 2017.03.24 @ 11:55:02

Tool Information

Drill Pipe:	Length: 2884.00 ft	Diameter: 3.80 inches	Volume: 40.45 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 40.45 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	2893.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	47.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2867.00	
Shut In Tool	5.00			2872.00	
Hydraulic tool	5.00			2877.00	
Jars	5.00			2882.00	
Safety Joint	2.00			2884.00	
Packer	5.00			2889.00	27.00 Bottom Of Top Packer
Packer	4.00			2893.00	
Stubb	1.00			2894.00	
Perforations	4.00			2898.00	
Change Over Sub	1.00			2899.00	
Recorder	0.00	6838	Inside	2899.00	
Recorder	0.00	8524	Outside	2899.00	
Drill Pipe	32.00			2931.00	
Change Over Sub	1.00			2932.00	
Perforations	5.00			2937.00	
Bullnose	3.00			2940.00	47.00 Bottom Packers & Anchor
Total Tool Length:	74.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas Corp

34-12s-12w Russell, KS

Box 837
Russell KS 67665

Cook #1

Job Ticket: 58124

DST#: 1

ATTN: Brad Hutchinson

Test Start: 2017.03.24 @ 11:55:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	mud w ith oil spots in tool	0.491

Total Length: 35.00 ft Total Volume: 0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

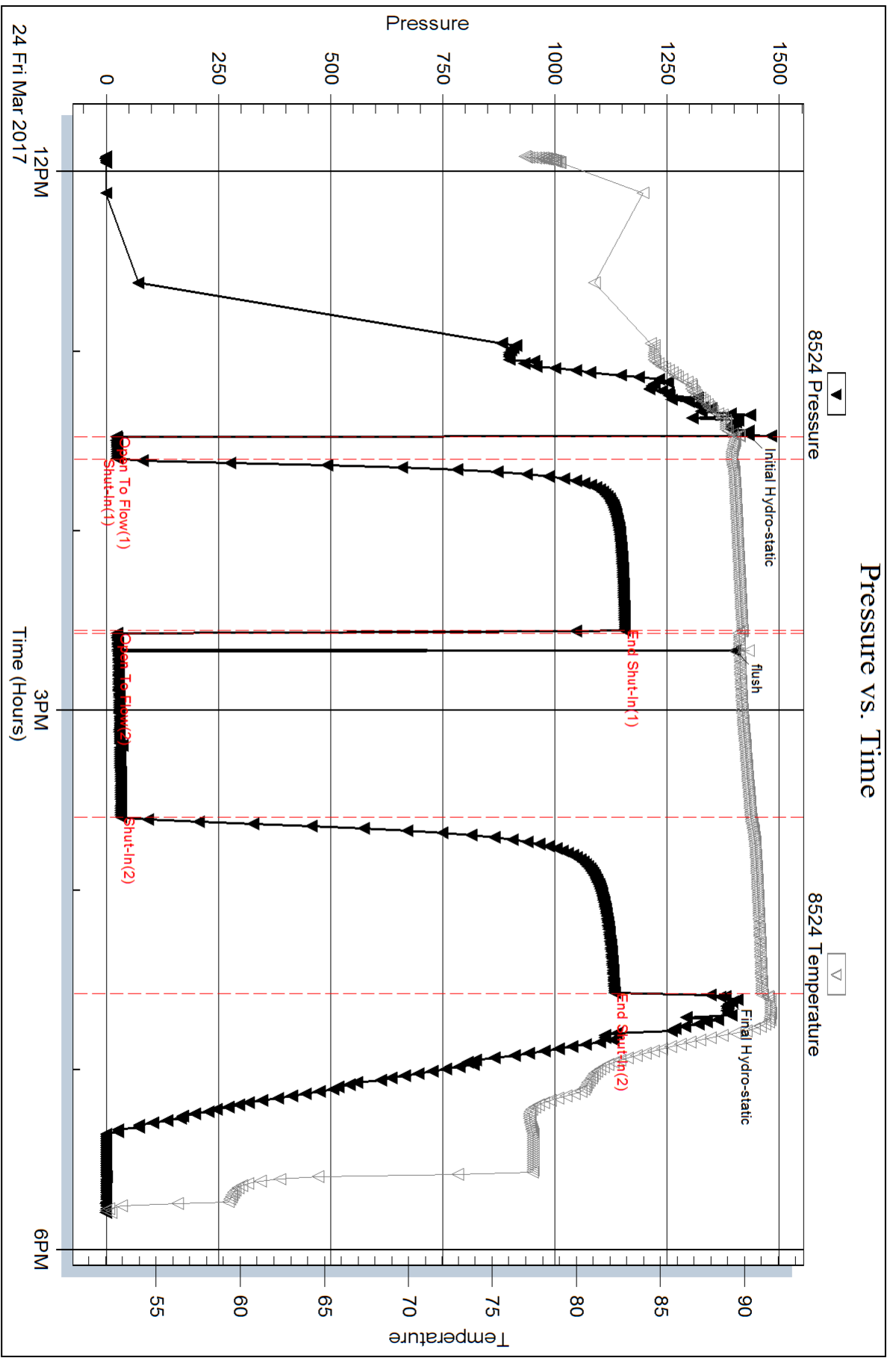
Recovery Comments:

Serial #: 8524

Outside Prospect Oil & Gas Corp

Cook #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 58124

Printed: 2017.03.27 @ 13:42:17

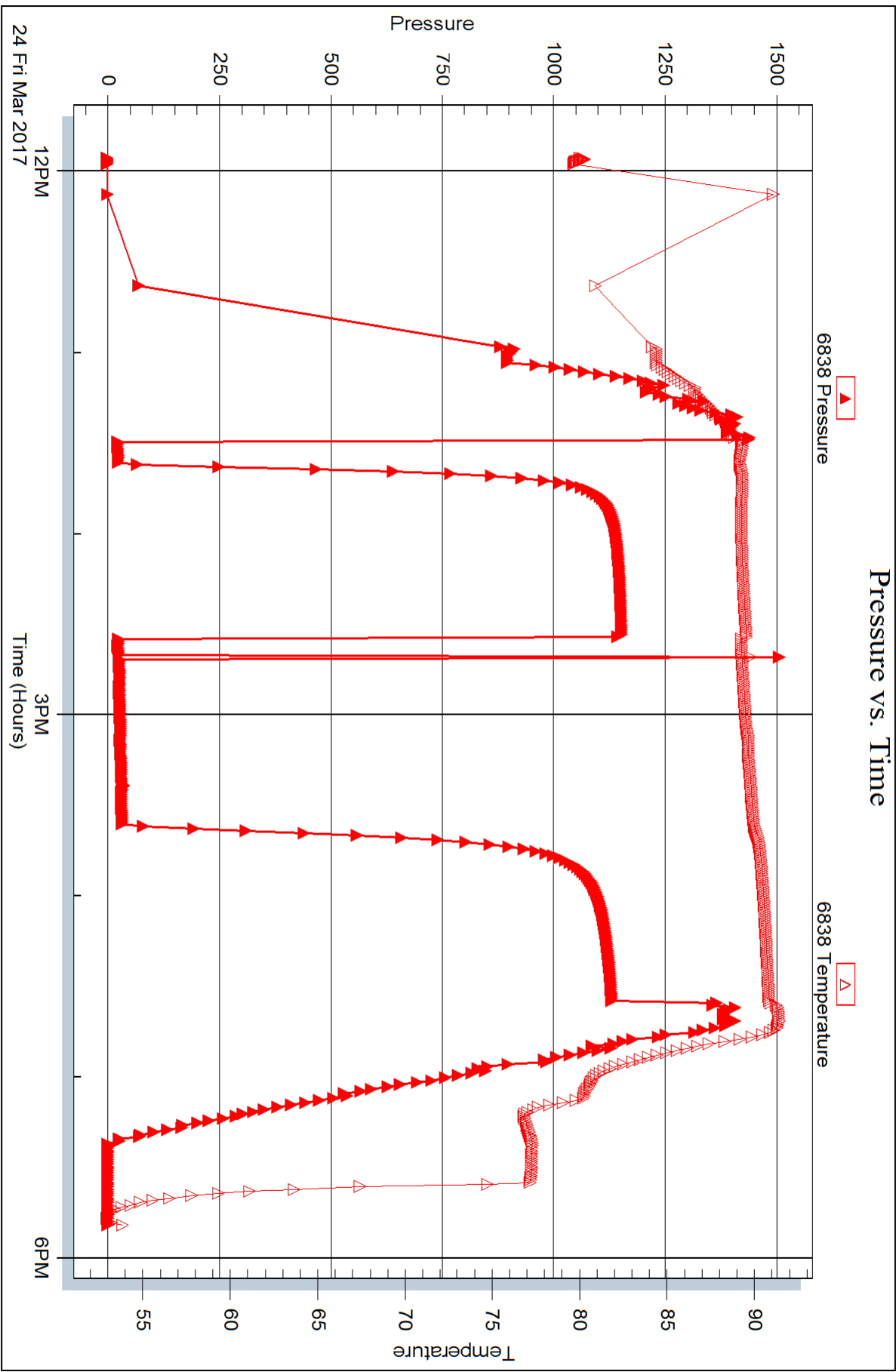
Serial #: 6838

Inside

Prospect Oil & Gas Corp

Cook #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas Corp**

Box 837
Russell KS 67665

ATTN: Brad Hutchinson

Cook #1

34-12s-12w Russell,KS

Start Date: 2017.03.24 @ 02:25:28

End Date: 2017.03.24 @ 08:59:19

Job Ticket #: 58125 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.03.27 @ 13:41:14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prospect Oil & Gas Corp

34-12s-12w Russell,KS

Box 837
Russell KS 67665

Cook #1

Job Ticket: 58125

DST#: 2

ATTN: Brad Hutchinson

Test Start: 2017.03.24 @ 02:25:28

GENERAL INFORMATION:

Formation: **Lansing G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:48:19

Time Test Ended: 08:59:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Paul Simpson

Unit No: 73

Interval: 2983.00 ft (KB) To 2998.00 ft (KB) (TVD)

Reference Elevations: 1679.00 ft (KB)

Total Depth: 2998.00 ft (KB) (TVD)

1673.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 6.00 ft

Serial #: 6838

Inside

Press@RunDepth: 302.59 psig @ 2988.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.25

End Date:

2017.03.25

Last Calib.:

2017.03.25

Start Time:

02:25:29

End Time:

08:59:19

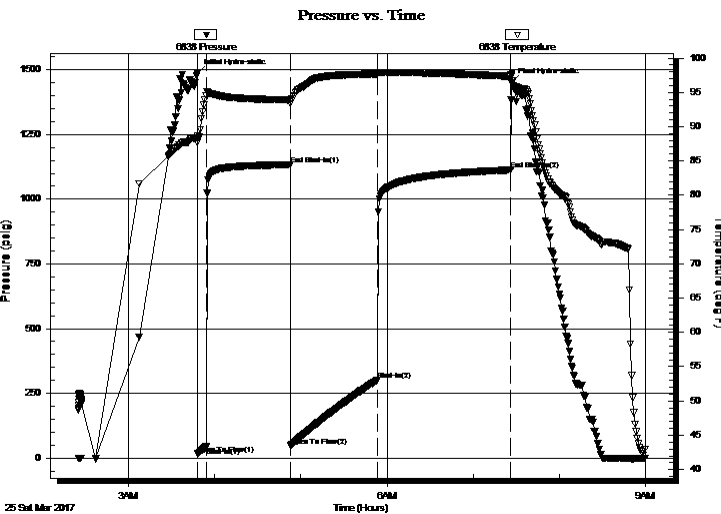
Time On Btm:

2017.03.25 @ 03:48:04

Time Off Btm:

2017.03.25 @ 07:26:49

TEST COMMENT: IF -5 1/2" blow building to 8"
ISI-60 surface blow built to 1/4" then decreased to surface
FF-60 blow built to bottom of bucket in 10 minutes
FSI-90 surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1485.13	88.67	Initial Hydro-static
1	16.42	87.68	Open To Flow (1)
6	43.39	94.54	Shut-In(1)
65	1132.68	93.89	End Shut-In(1)
65	47.60	93.38	Open To Flow (2)
126	302.59	97.67	Shut-In(2)
218	1112.73	97.34	End Shut-In(2)
219	1449.41	96.74	Final Hydro-static

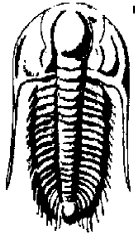
Recovery

Length (ft)	Description	Volume (bbl)
610.00	Muddy w ater 90%w ater 10%mud	8.56
0.00	few oil specks in tool	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prospect Oil & Gas Corp
 Box 837
 Russell KS 67665
 ATTN: Brad Hutchinson

34-12s-12w Russell,KS
Cook #1
 Job Ticket: 58125 **DST#: 2**
 Test Start: 2017.03.24 @ 02:25:28

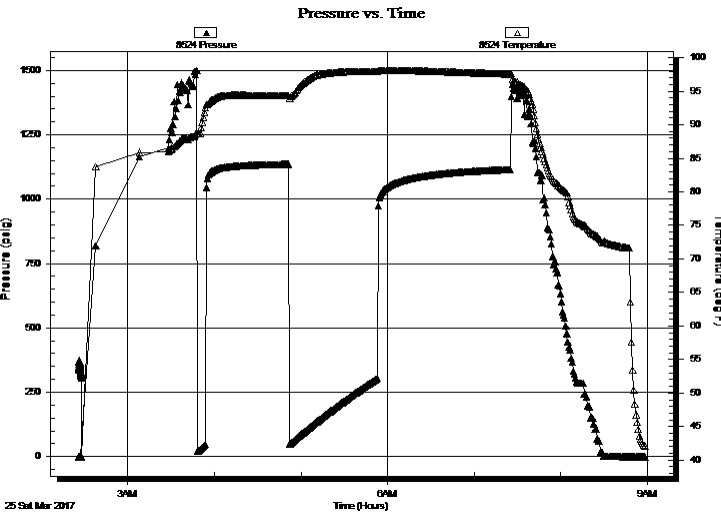
GENERAL INFORMATION:

Formation: **Lansing G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:48:19
 Time Test Ended: 08:59:19
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Paul Simpson
 Unit No: 73
 Interval: **2983.00 ft (KB) To 2998.00 ft (KB) (TVD)**
 Total Depth: 2998.00 ft (KB) (TVD)
 Reference Elevations: 1679.00 ft (KB)
 1673.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 KB to GR/CF: 6.00 ft

Serial #: 8524 Outside

Press@RunDepth: psig @ 2988.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.25 End Date: 2017.03.25 Last Calib.: 1899.12.30
 Start Time: 02:25:49 End Time: 08:58:24 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF -5 1/2" blow building to 8"
 ISI-60 surface blow built to 1/4" then decreased to surface
 FF-60 blow built to bottom of bucket in 10 minutes
 FS1-90 surface blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
610.00	Muddy w ater 90%w ater 10%mud	8.56
0.00	few oil specks in tool	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas Corp

34-12s-12w Russell, KS

Box 837
Russell KS 67665

Cook #1

Job Ticket: 58125

DST#: 2

ATTN: Brad Hutchinson

Test Start: 2017.03.24 @ 02:25:28

Tool Information

Drill Pipe:	Length: 2985.00 ft	Diameter: 3.80 inches	Volume: 41.87 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 41.87 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	2983.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	37.00 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			2962.00	
Shut In Tool	5.00			2967.00	
Hydraulic tool	5.00			2972.00	
Safety Joint	2.00			2974.00	
Packer	5.00			2979.00	22.00 Bottom Of Top Packer
Packer	4.00			2983.00	
Stubb	1.00			2984.00	
Perforations	4.00			2988.00	
Recorder	0.00	6838	Inside	2988.00	
Recorder	0.00	8524	Outside	2988.00	
Perforations	7.00			2995.00	
Bullnose	3.00			2998.00	15.00 Bottom Packers & Anchor

Total Tool Length: 37.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas Corp

34-12s-12w Russell,KS

Box 837
Russell KS 67665

Cook #1

Job Ticket: 58125

DST#: 2

ATTN: Brad Hutchinson

Test Start: 2017.03.24 @ 02:25:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity: 100000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
610.00	Muddy w ater 90%w ater 10%mud	8.557
0.00	few oil specks in tool	0.000

Total Length: 610.00 ft Total Volume: 8.557 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

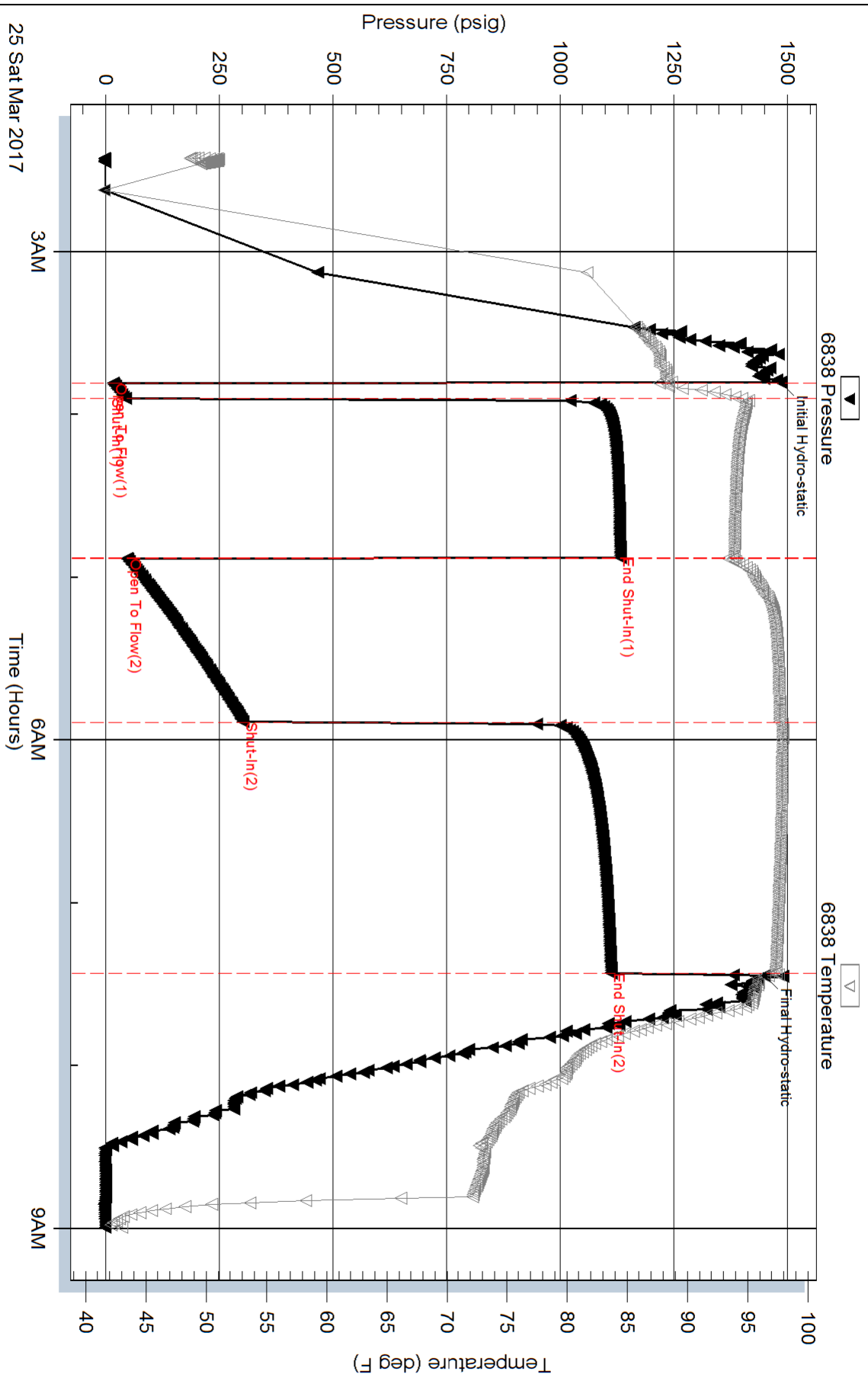
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .095@48

Pressure vs. Time

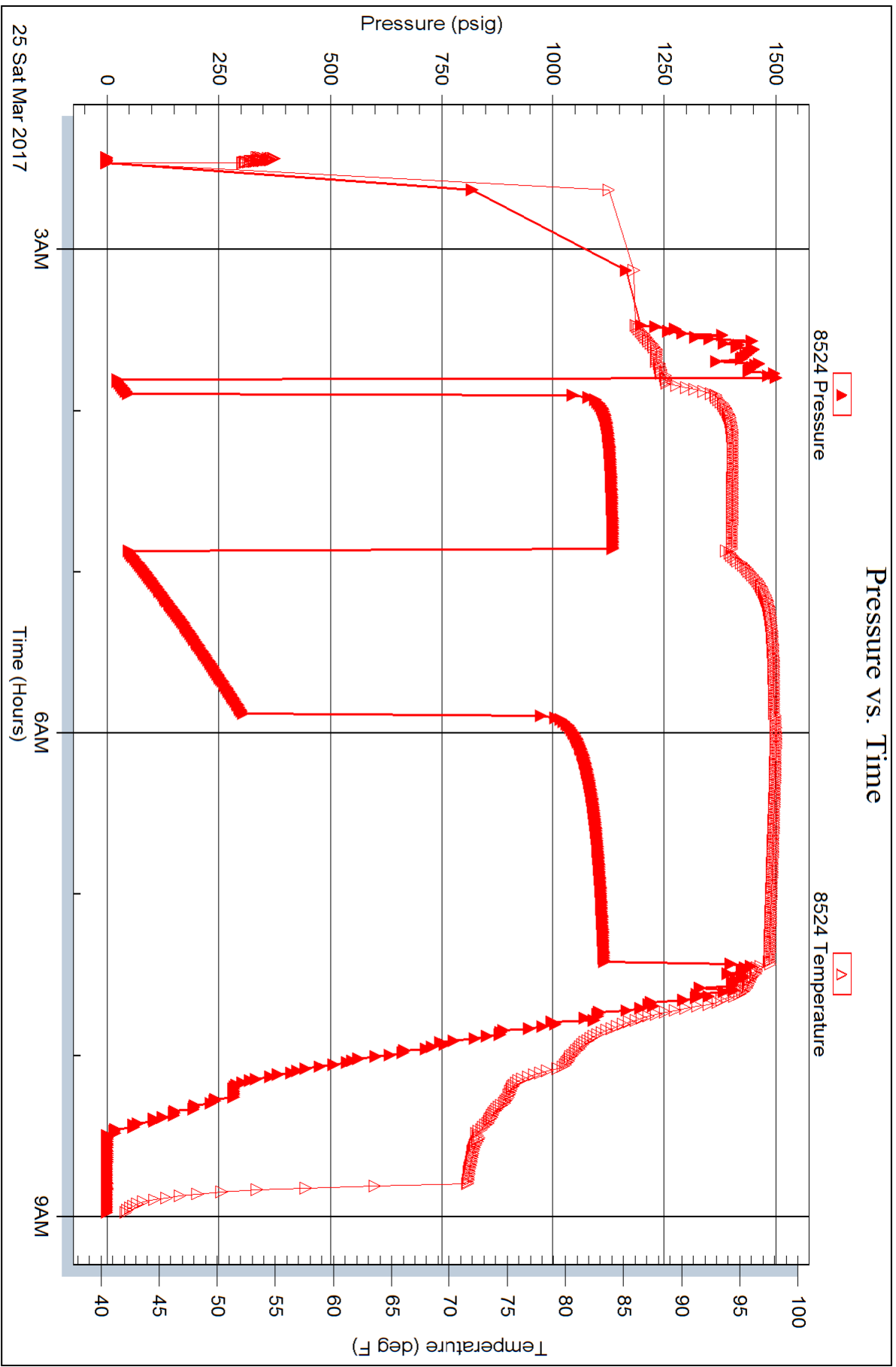


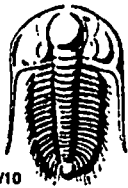
Serial #: 8524

Outside Prospect Oil & Gas Corp

Cook #1

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58124

Well Name & No. Cook #1 Test No. 1 Date 3/24/13
 Company Prospect Oil & Gas Corp Elevation 1679 KB 1653 GL
 Address _____
 Co. Rep / Geo. Randy Kilian Rig Rayco #1
 Location: Sec. 34 Twp. 12 Rge. Rw Co. Russell State Ks

Interval Tested 2853-2940 Zone Tested LKc C-D
 Anchor Length 47 Drill Pipe Run 2884 Mud Wt. 9.0
 Top Packer Depth 2888 Drill Collars Run _____ Vis 56
 Bottom Packer Depth 2893 Wt. Pipe Run _____ WL 8.8
 Total Depth 2940 Chlorides _____ ppm System _____ LCM _____
 Blow Description Tool slid 4' before opening + 4' after opening 2" blow
2" blow through 1st opening

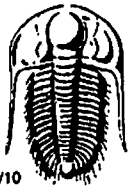
Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>Mud / w oil spots in</u>				
	<u>bottom</u>				

Rec Total 35 BHT 91 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1432</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>10:50</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:55</u>
(C) First Final Flow <u>24</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>13:29</u>
(D) Initial Shut-In <u>1155</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>16:35</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>17:47</u>
(F) Second Final Flow <u>32</u>	<input type="checkbox"/> Mileage <u>100 RT</u> ⁷⁵	Comments _____
(G) Final Shut-In <u>1133</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1379</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>5</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1450</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1450</u>	

Approved By _____ Our Representative _____

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. 58125

Well Name & No. Cook #1 Test No. 2 Date 3/24/10
 Company Prospect Oil & Gas Corp Elevation 1679 KB 1673 GL
 Address Box 837 Russell KS
 Co. Rep / Geo. Randy Kilian 62665 Rig Royal #1
 Location: Sec. 34 Twp. 12 Rge. 12 Co. Russell State KS

Interval Tested 2983-2998 Zone Tested 1XC G
 Anchor Length 15 Drill Pipe Run 2985 Mud Wt. 9.2
 Top Packer Depth 2978 Drill Collars Run _____ Vis 59
 Bottom Packer Depth 2983 Wt. Pipe Run _____ WL _____
 Total Depth 2998 Chlorides _____ ppm System LCM _____

Blow Description 1/2" blow building to 8"
ISI 1/4" blow
FF - built to bottom of bucket in 10 minutes
FBI - surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>610</u>	<u>Muddy salt water</u>		<u>90</u>	<u>10</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 _____ BHT 97 Gravity _____ API RW 0.95 @ 48 °F Chlorides 100,000 ppm

(A) Initial Hydrostatic 1485 Test 1050 T-On Location 0220
 (B) First Initial Flow 16 Jars _____ T-Started 0225
 (C) First Final Flow 43 Safety Joint X ⁷⁵ _____ T-Open 0340
 (D) Initial Shut-In 1133 Circ Sub _____ T-Pulled 0723
 (E) Second Initial Flow 48 Hourly Standby _____ T-Out 0859
 (F) Second Final Flow 302 Mileage 50 X 2 ⁷⁵ _____ Comments _____
 (G) Final Shut-In 1112 Sampler _____
 (H) Final Hydrostatic 1449 Straddle _____
 Initial Open 5 Shale Packer _____
 Initial Shut-In 60 Shale Packer _____
 Final Flow 80 Extra Packer _____
 Final Shut-In 90 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1200 Sub Total _____
 Total 1200 Total _____
 MP/DST Disc't _____

Approved By _____ Our Representative _____
 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.