



DRILL STEM TEST REPORT

Prepared For: **Pioneer Resources**

80 Windmill Dr
Phillipsburg KS 67661

ATTN: Cliff Ottaway

Schemper-Romjue # 1

1-3s-21w Norton,KS

Start Date: 2012.07.28 @ 18:15:00

End Date: 2012.07.29 @ 01:28:00

Job Ticket #: 46136 DST #: 1

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

Printed: 2012.08.02 @ 14:03:45



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pioneer Resources
80 Windmill Dr
Phillipsburg KS 67661
ATTN: Cliff Ottaway

1-3s-21w Norton,KS
Schemper-Romjue # 1
Job Ticket: 46136 **DST#: 1**
Test Start: 2012.07.28 @ 18:15:00

GENERAL INFORMATION:

Formation: **Toronto**
Deviated: No Whipstock: 2306.00 ft (KB)
Time Tool Opened: 20:22:00
Time Test Ended: 01:28:00
Interval: **3540.00 ft (KB) To 3580.00 ft (KB) (TVD)**
Total Depth: 3580.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty
Unit No: 57
Reference Elevations: 2306.00 ft (KB)
2299.00 ft (CF)
KB to GR/CF: 7.00 ft

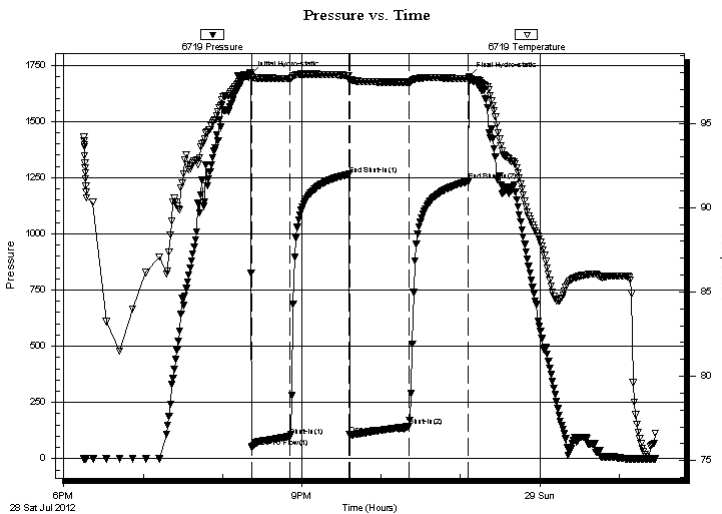
Serial #: 6719

Inside

Press @ Run Depth: 143.08 psig @ 3545.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.07.28 End Date: 2012.07.29 Last Calib.: 2012.07.29
Start Time: 18:15:05 End Time: 01:27:59 Time On Btm: 2012.07.28 @ 20:21:00
Time Off Btm: 2012.07.28 @ 23:06:30

TEST COMMENT: 30-IFP- BOB in 25 1/2 min
45-ISIP- Surface Blow in 4 min Died in 19 min
45-FFP- Surface Blow Building to 9 1/2"
45-FSIP- Surface Blow in 3 min Died in 11 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.84	98.01	Initial Hydro-static
1	50.87	97.75	Open To Flow (1)
30	99.40	97.65	Shut-In(1)
75	1264.92	97.83	End Shut-In(1)
75	106.97	97.51	Open To Flow (2)
120	143.08	97.43	Shut-In(2)
165	1233.93	97.63	End Shut-In(2)
166	1697.99	97.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MCW 15% m 85% w	0.61
62.00	MCW 30% m 70% w	0.87
62.00	VSO&WCM 2% o 38% w 60% m	0.87
10.00	MCO 10m 90% o	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pioneer Resources
80 Windmill Dr
Phillipsburg KS 67661
ATTN: Cliff Ottaway

1-3s-21w Norton,KS
Schemper-Romjue # 1
Job Ticket: 46136 **DST#: 1**
Test Start: 2012.07.28 @ 18:15:00

Tool Information

Drill Pipe:	Length: 3415.00 ft	Diameter: 3.80 inches	Volume: 47.90 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 48.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3540.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	60.00 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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Shut In Tool	5.00			3525.00	
Hydraulic tool	5.00			3530.00	
Packer	5.00			3535.00	20.00 Bottom Of Top Packer
Packer	5.00			3540.00	
Stubb	1.00			3541.00	
Perforations	3.00			3544.00	
Change Over Sub	1.00			3545.00	
Recorder	0.00	6719	Inside	3545.00	
Recorder	0.00	8320	Outside	3545.00	
Blank Spacing	31.00			3576.00	
Change Over Sub	1.00			3577.00	
Bullnose	3.00			3580.00	40.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Resources
80 Windmill Dr
Phillipsburg KS 67661
ATTN: Cliff Ottaway

1-3s-21w Norton,KS
Schemper-Romjue # 1
Job Ticket: 46136 **DST#: 1**
Test Start: 2012.07.28 @ 18:15:00

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:	85000 ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: 2.00 inches			

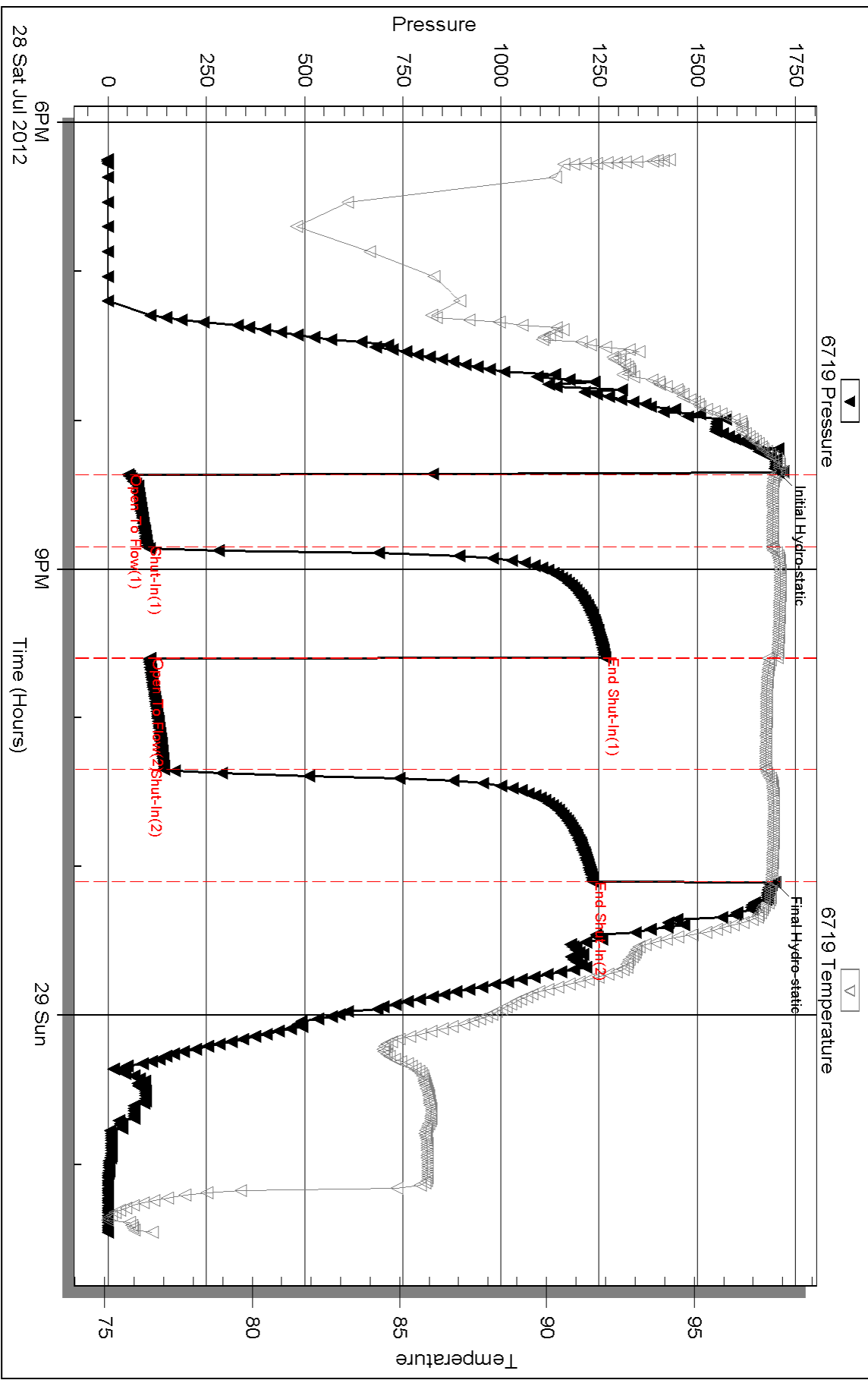
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	MCW 15%m 85%w	0.610
62.00	MCW 30%m 70%w	0.870
62.00	VSO&WCM 2%o 38%w 60%m	0.870
10.00	MCO 10m 90%o	0.140

Total Length: 258.00 ft Total Volume: 2.490 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: .085 @ 76

Pressure vs. Time

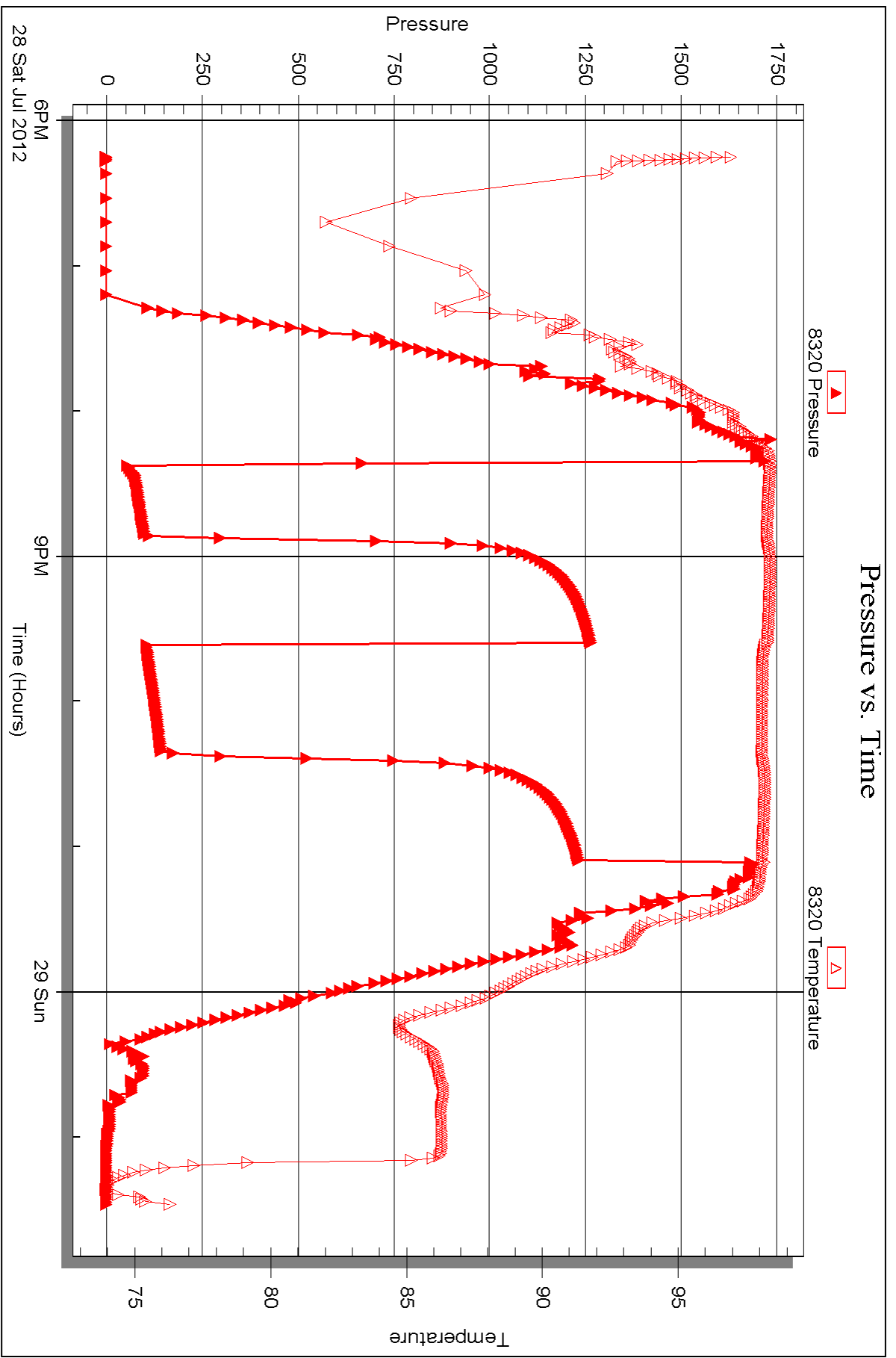


Serial #: 8320

Outside Pioneer Resources

Schemper-Rontjue # 1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 46136

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DRILL STEM TEST REPORT

Prepared For: **Pioneer Resources**

80 Windmill Dr
Phillipsburg KS 67661

ATTN: Cliff Ottaway

Schemper-Romjue # 1

1-3s-21w Norton,KS

Start Date: 2012.07.29 @ 12:01:00

End Date: 2012.07.29 @ 18:28:30

Job Ticket #: 46137 DST #: 2

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

Printed: 2012.08.02 @ 14:02:58

Pioneer Resources
1-3s-21w Norton,KS
Schemper-Romjue # 1
DST # 2
LKC "E-F"
2012.07.29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Pioneer Resources
80 Windmill Dr
Phillipsburg KS 67661
ATTN: Cliff Ottaway

1-3s-21w Norton,KS
Schemper-Romjue # 1
Job Ticket: 46137 **DST#: 2**
Test Start: 2012.07.29 @ 12:01:00

GENERAL INFORMATION:

Formation: **LKC "E-F"**
Deviated: No Whipstock: 2306.00 ft (KB)
Time Tool Opened: 13:32:00
Time Test Ended: 18:28:30
Interval: **3644.00 ft (KB) To 3674.00 ft (KB) (TVD)**
Total Depth: 3674.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: James Winder
Unit No: 57
Reference Elevations: 2306.00 ft (KB)
2299.00 ft (CF)
KB to GR/CF: 7.00 ft

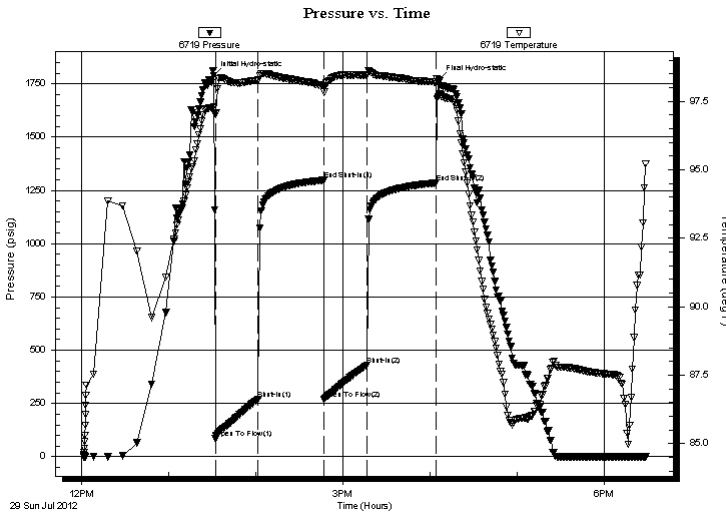
Serial #: 6719

Inside

Press @ Run Depth: 431.28 psig @ 3645.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.07.29 End Date: 2012.07.29 Last Calib.: 2012.07.29
Start Time: 12:01:05 End Time: 18:28:29 Time On Btm: 2012.07.29 @ 13:31:00
Time Off Btm: 2012.07.29 @ 16:06:00

TEST COMMENT: 30 - IF: 5" surge blow at open, built to BOB (11") at 4 1/2 min.
45 - IS: Bled off, weak surface blow back for a few min., then dead
30 - FF: Blow built to BOB at 7 min.
45 - FS: Bled off, No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.68	97.31	Initial Hydro-static
1	84.59	97.02	Open To Flow (1)
31	270.41	98.27	Shut-In(1)
76	1297.86	98.07	End Shut-In(1)
76	271.16	97.84	Open To Flow (2)
106	431.28	98.44	Shut-In(2)
153	1284.95	98.19	End Shut-In(2)
155	1769.99	97.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
620.00	MCW 86%w, 14%m	7.57
275.00	MCW 62%w, 38%m	3.86
0.00	Trace of Oil 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

Pioneer Resources
 80 Windmill Dr
 Phillipsburg KS 67661
 ATTN: Cliff Ottaway

1-3s-21w Norton, KS
Schemper-Romjue # 1
 Job Ticket: 46137 **DST#: 2**
 Test Start: 2012.07.29 @ 12:01:00

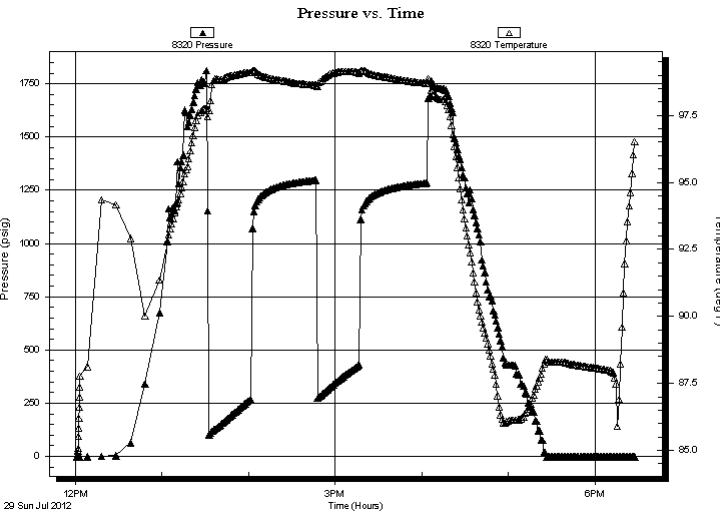
GENERAL INFORMATION:

Formation: **LKC "E-F"**
 Deviated: No Whipstock: 2306.00 ft (KB)
 Time Tool Opened: 13:32:00
 Time Test Ended: 18:28:30
 Interval: **3644.00 ft (KB) To 3674.00 ft (KB) (TVD)**
 Total Depth: 3674.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 57
 Reference Elevations: 2306.00 ft (KB)
 2299.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8320 Outside

Press @ Run Depth: psig @ 3645.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.07.29 End Date: 2012.07.29 Last Calib.: 2012.07.29
 Start Time: 12:01:05 End Time: 18:27:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30 - IF: 5" surge blow at open, built to BOB (11") at 4 1/2 min.
 45 - IS: Bled off, weak surface blow back for a few min., then dead
 30 - FF: Blow built to BOB at 7 min.
 45 - FS: Bled off, No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
620.00	MCW 86%w, 14%m	7.57
275.00	MCW 62%w, 38%m	3.86
0.00	Trace of Oil 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

Pioneer Resources
80 Windmill Dr
Phillipsburg KS 67661
ATTN: Cliff Ottaway

1-3s-21w Norton,KS
Schemper-Romjue # 1
Job Ticket: 46137 **DST#: 2**
Test Start: 2012.07.29 @ 12:01:00

Tool Information

Drill Pipe:	Length: 3511.00 ft	Diameter: 3.80 inches	Volume: 49.25 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	46000.00 lb
			<u>Total Volume: 49.86 bbl</u>	Tool Chased	10.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3644.00 ft			Final	39000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	50.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Tool chased 10' to bottom at open - lost 10' - 15' of mud - 5" surge blow at open

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3629.00	
Hydraulic tool	5.00			3634.00	
Packer	5.00			3639.00	20.00 Bottom Of Top Packer
Packer	5.00			3644.00	
Stubb	1.00			3645.00	
Recorder	0.00	6719	Inside	3645.00	
Recorder	0.00	8320	Outside	3645.00	
Perforations	26.00			3671.00	
Bullnose	3.00			3674.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Resources
80 Windmill Dr
Phillipsburg KS 67661
ATTN: Cliff Ottaway

1-3s-21w Norton,KS
Schemper-Romjue # 1
Job Ticket: 46137 **DST#: 2**
Test Start: 2012.07.29 @ 12:01:00

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: 70000 ppm	
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
620.00	MCW 86%w , 14%m	7.567
275.00	MCW 62%w , 38%m	3.858
0.00	Trace of Oil in tool	0.000

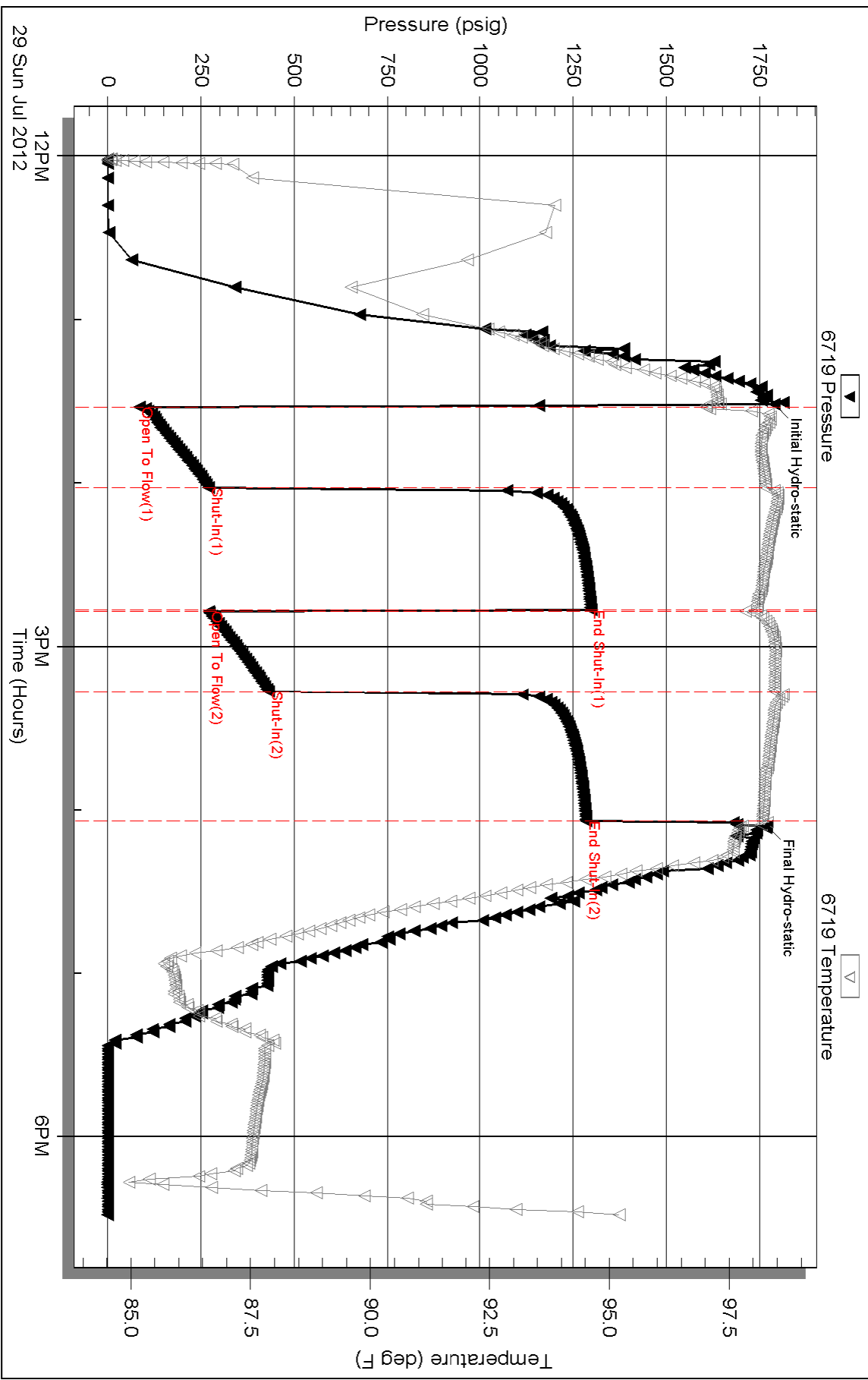
Total Length: 895.00 ft Total Volume: 11.425 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW = .075 ohms @ 100.2 deg F
Chlorides = 70,000 ppm

Pressure vs. Time

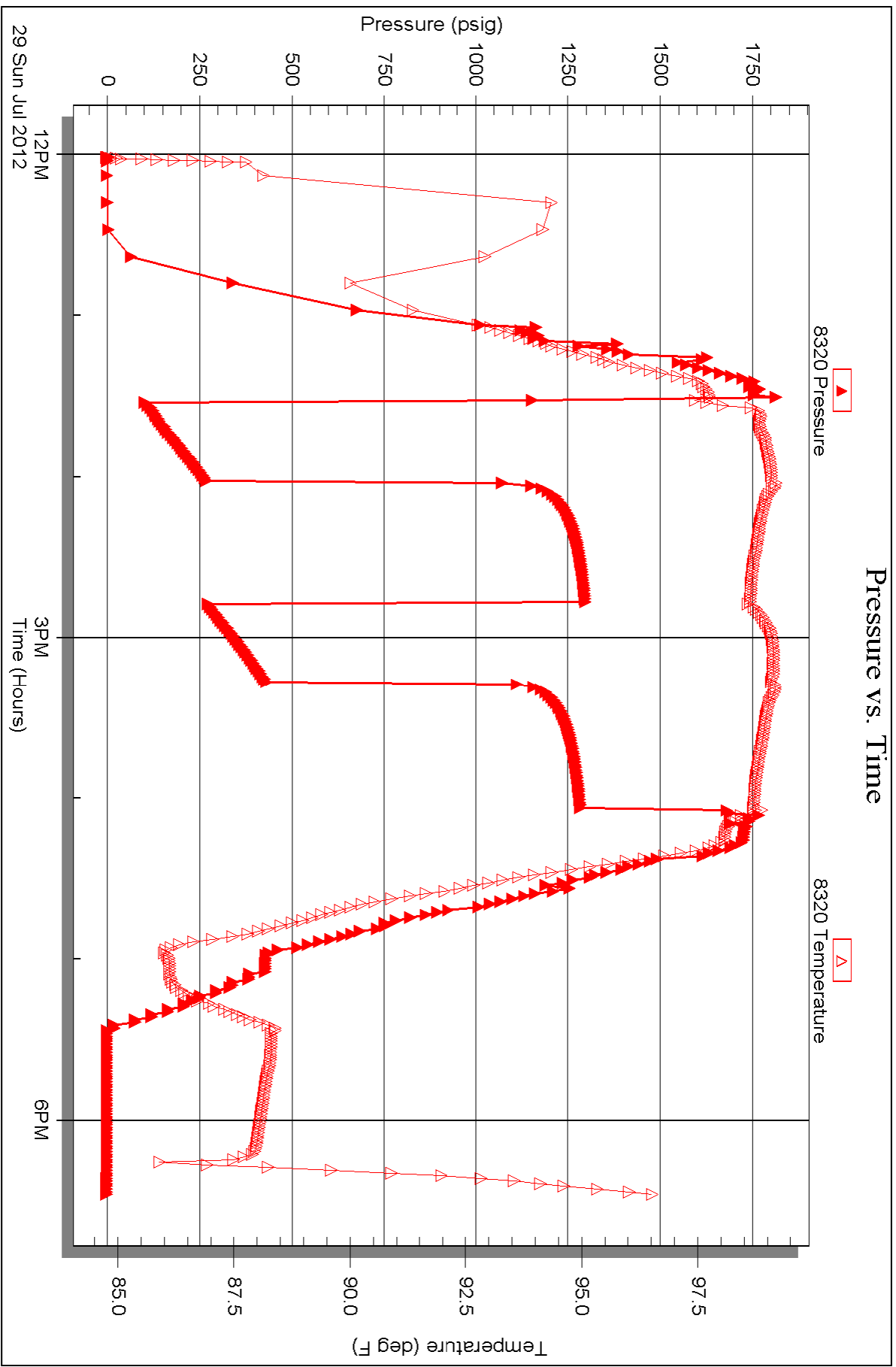


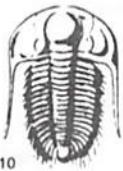
Serial #: 8320

Outside Pioneer Resources

Schemper-Rontjue # 1

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46136

Well Name & No. Schemper-Romjue # 1 Test No. 1 Date 7-28-12
 Company Pioneer Resources Elevation 2306 KB 2299 GL
 Address 80 Windmill Dr. Phillipsburg Ks, 67661
 Co. Rep / Geo. CLIFF Rig W-W #12
 Location: Sec. 1 Twp. 3^s Rge. 21^w Co. Norton State Ks

Interval Tested 3540-3580 Zone Tested Toronto
 Anchor Length 40 Drill Pipe Run 3415 Mud Wt. 8.9
 Top Packer Depth 3535 Drill Collars Run 124 Vis 46
 Bottom Packer Depth 3540 Wt. Pipe Run 0 WL 6.0
 Total Depth 3580 Chlorides 900 ppm System LCM 2

Blow Description IFP - BOB in 25 1/2 min.
ISIP - Surface Blow in 4 min Died in 19 min
FFP - Surface Blow Building to 9 1/2 in.
FSIP - Surface Blow in 3 min Died in 11 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>mcw</u>		<u>85</u>	<u>15</u>	
<u>62</u>	<u>mcw</u>		<u>70</u>	<u>30</u>	
<u>62</u>	<u>VSO + wcm</u>	<u>2</u>	<u>38</u>	<u>60</u>	
<u>10</u>	<u>mco</u>	<u>90</u>		<u>10</u>	
<u>258</u>					

Rec Total 258 BHT 97 Gravity API RW 0.85 @ 76 °F Chlorides 85000 ppm
 (A) Initial Hydrostatic 1705 Test 1150 T-On Location 15:05
 (B) First Initial Flow 50 Jars _____ T-Started 18:15
 (C) First Final Flow 99 Safety Joint _____ T-Open 20:21
 (D) Initial Shut-In 1264 Circ Sub _____ T-Pulled 23:06
 (E) Second Initial Flow 106 Hourly Standby _____ T-Out 01:28
 (F) Second Final Flow 143 Mileage 98 RT 151.90 Comments _____
 (G) Final Shut-In 12.33 Sampler _____
 (H) Final Hydrostatic 1697 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1301.90 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 46137

4/10

Well Name & No. Schenper-Romjue #1 Test No. 2 Date 7-29-12
 Company Pioneer Resources Elevation 2306 KB 2299 GL
 Address 80 Windmill Dr Phillipsburg KS 67661
 Co. Rep / Geo. Cliff Ottaway Rig WW #12
 Location: Sec. 1 Twp. 3^s Rge. 21^w Co. Norton State KS

Interval Tested 3644-3674 Zone Tested LKC "E-F"
 Anchor Length 30 Drill Pipe Run 3511 Mud Wt. 9.1
 Top Packer Depth 3639 Drill Collars Run 123 Vis 47
 Bottom Packer Depth 3644 Wt. Pipe Run - WL 6.8
 Total Depth 3674 Chlorides 1300 ppm System LCM 1

Blow Description IF: 5" surge Blow at open, Built to BOB (11") at 4 1/2 min.
ISI: Bled off, weak surface blowback for a few min., then dead
FF: Blow built to BOB at 7 min.
FSI: Bled off, No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>275</u>	<u>mcw</u>	-	-	<u>62</u>	<u>38</u>
<u>620</u>	<u>mcw</u>	-	-	<u>86</u>	<u>14</u>
	<u>Trace of oil in Tool</u>				

Rec Total 895 BHT 98 Gravity - API RW .075 @ 100.2F Chlorides 70,000 ppm

(A) Initial Hydrostatic <u>1791</u>	<input type="checkbox"/> Test <u>X</u> 1150	T-On Location <u>11:40</u>
(B) First Initial Flow <u>85</u>	<input checked="" type="checkbox"/> Jars	T-Started <u>12:01</u>
(C) First Final Flow <u>270</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>13:32</u>
(D) Initial Shut-In <u>1298</u>	<input checked="" type="checkbox"/> Circ Sub <u>X NA</u>	T-Pulled <u>16:04</u>
(E) Second Initial Flow <u>271</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>18:25</u>
(F) Second Final Flow <u>431</u>	<input checked="" type="checkbox"/> Mileage <u>98 RTx2</u> 303.80	Comments <u>Tool chased 10' to</u>
(G) Final Shut-In <u>1285</u>	<input checked="" type="checkbox"/> Sampler	<u>bottom at open - lost 10'-15'</u>
(H) Final Hydrostatic <u>1770</u>	<input checked="" type="checkbox"/> Straddle	<u>of mud - 5" surge blow at</u>
	<input checked="" type="checkbox"/> Shale Packer	<u>Hotel open</u>
	<input checked="" type="checkbox"/> Extra Packer	<input checked="" type="checkbox"/> Ruined Shale Packer
	<input checked="" type="checkbox"/> Extra Recorder	<input checked="" type="checkbox"/> Ruined Packer
	<input checked="" type="checkbox"/> Day Standby <u>X loaded Tools 7-30-12</u>	Sub Total <u>800</u>
	<input checked="" type="checkbox"/> Accessibility <u>X 22:00</u>	Total <u>2253.80</u>
	Sub Total <u>1453.80</u>	MP/DST Disc't

Approved By _____ Our Representative Jarvis Winters

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.