



DRILL STEM TEST REPORT

Prepared For: **Messenger Petro. Inc.**

525 S. Main St.
Kingman, KS 67068-1968

ATTN: Jon Messenger

Kinsler-Dixon #1

4-29s-8w Kingman,KS

Start Date: 2013.11.22 @ 11:48:27

End Date: 2013.11.22 @ 19:04:27

Job Ticket #: 51851 DST #: 1

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

Printed: 2013.12.02 @ 11:32:26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Messenger Petro. Inc.
525 S. Main St.
Kingman, KS 67068-1968
ATTN: Jon Messenger

4-29s-8w Kingman,KS
Kinsler-Dixon #1
Job Ticket: 51851 **DST#: 1**
Test Start: 2013.11.22 @ 11:48:27

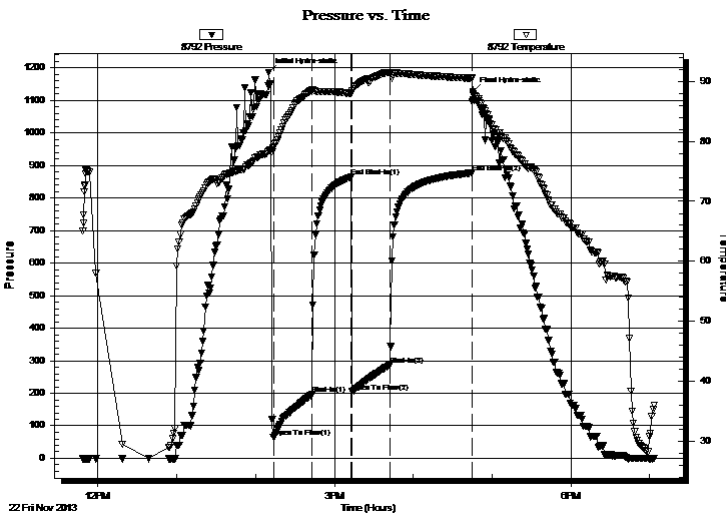
GENERAL INFORMATION:

Formation: **Indian Cave**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 14:13:27
Time Test Ended: 19:04:27
Interval: **2327.00 ft (KB) To 2365.00 ft (KB) (TVD)**
Total Depth: 2365.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Ryan Reynolds
Unit No: 48
Reference Elevations: 1675.00 ft (KB)
1666.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8792 Outside
Press@RunDepth: 286.99 psig @ 2328.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.11.22 End Date: 2013.11.22 Last Calib.: 2013.11.22
Start Time: 11:48:32 End Time: 19:04:26 Time On Btm: 2013.11.22 @ 14:10:12
Time Off Btm: 2013.11.22 @ 16:45:27

TEST COMMENT: IF: Strong blow . BOB @ 2 1/2 min. No GTS.
IS: Weak surf. blow
FF: Strong blow . BOB @ 6 min. No GTS.
FS: Weak surf. blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1186.07	78.43	Initial Hydro-static
4	64.05	78.84	Open To Flow (1)
33	196.84	88.55	Shut-In(1)
63	864.43	88.00	End Shut-In(1)
64	204.66	88.14	Open To Flow (2)
92	286.99	91.44	Shut-In(2)
155	877.21	90.55	End Shut-In(2)
156	1127.85	87.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
400.00	SLI GCMW 2%gas, 17%mud, 80%w tr	3.73
180.00	MCW 45%mud, 55%w tr	2.52

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Messenger Petro. Inc.
525 S. Main St.
Kingman, KS 67068-1968
ATTN: Jon Messenger

4-29s-8w Kingman,KS
Kinsler-Dixon #1
Job Ticket: 51851 **DST#: 1**
Test Start: 2013.11.22 @ 11:48:27

Tool Information

Drill Pipe:	Length: 2102.00 ft	Diameter: 3.80 inches	Volume: 29.49 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 67000.00 lb
			<u>Total Volume: 30.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	2327.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	64.00 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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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2306.00	
Hydraulic tool	5.00			2311.00	
Jars	5.00			2316.00	
Safety Joint	2.00			2318.00	
Packer	5.00			2323.00	26.00 Bottom Of Top Packer
Packer	4.00			2327.00	
Stubb	1.00			2328.00	
Recorder	0.00	8790	Inside	2328.00	
Recorder	0.00	8792	Outside	2328.00	
Perforations	34.00			2362.00	
Bullnose	3.00			2365.00	38.00 Bottom Packers & Anchor

Total Tool Length: 64.00



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TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petro. Inc.

4-29s-8w Kingman,KS

525 S. Main St.
Kingman, KS 67068-1968

Kinsler-Dixon #1

Job Ticket: 51851

DST#: 1

ATTN: Jon Messenger

Test Start: 2013.11.22 @ 11:48:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity: 126000 ppm

Viscosity: 28.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 98000.00 ppm

Filter Cake: 0.01 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
400.00	SLI GCMW 2%gas, 17%mud, 80%w tr	3.734
180.00	MCW 45%mud, 55%w tr	2.525

Total Length: 580.00 ft

Total Volume: 6.259 bbl

Num Fluid Samples: 0

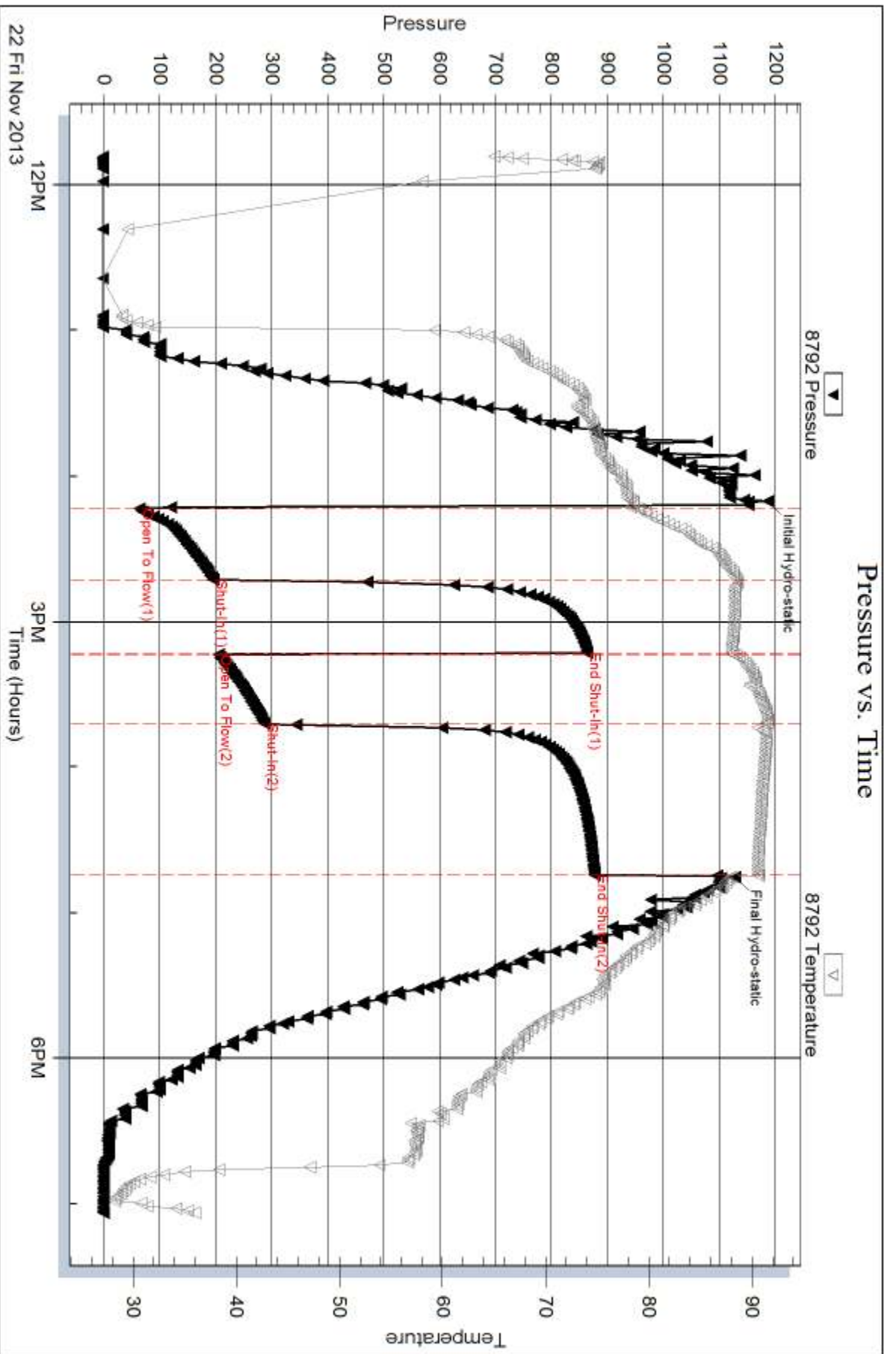
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



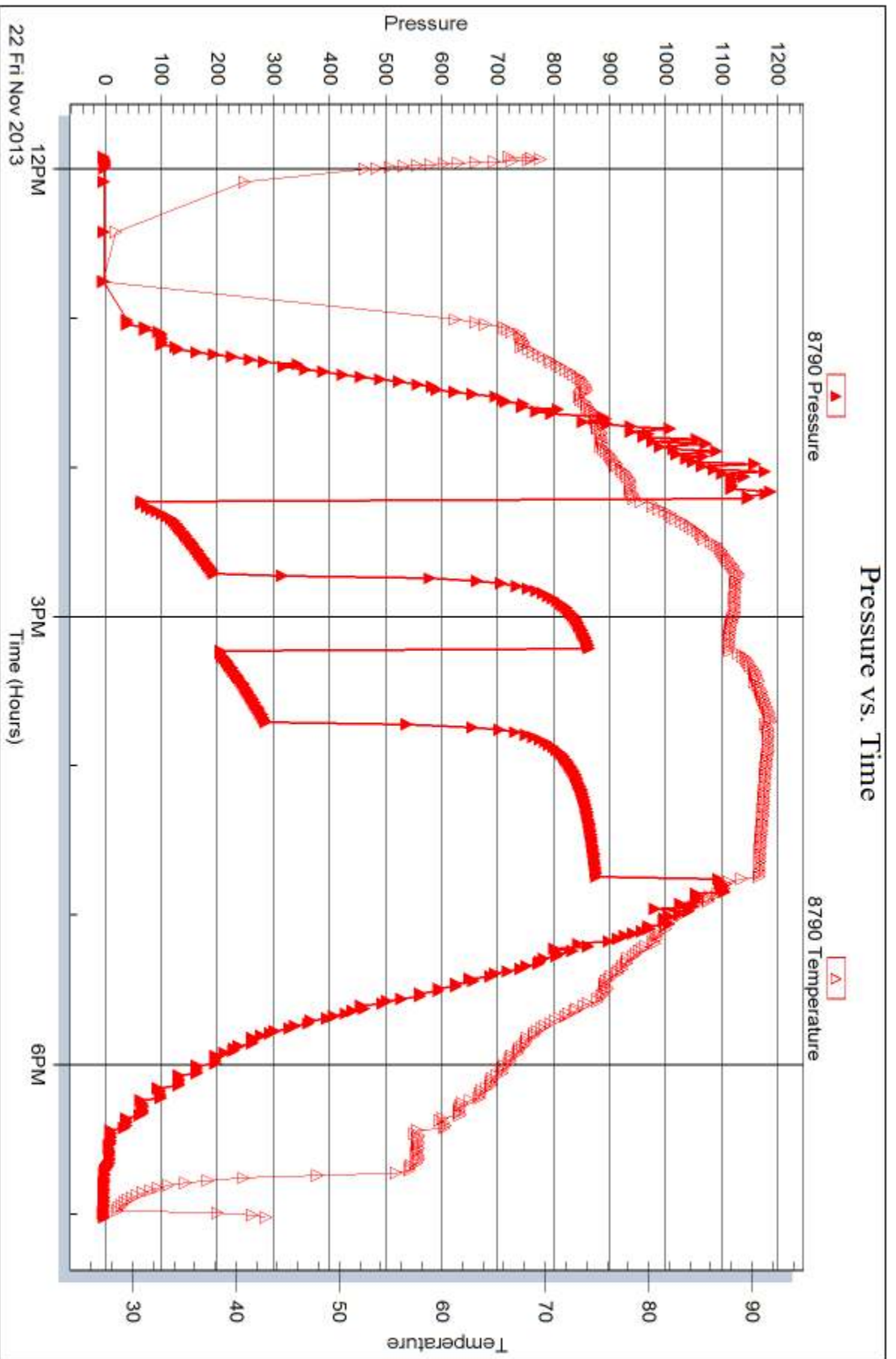
Serial #: 8790

Inside

Messenger Petro. Inc.

Kinsler-Dixon #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 51851

Printed: 2013.12.02 @ 11:32:29



DRILL STEM TEST REPORT

Prepared For: **Messenger Petro. Inc.**

525 S. Main St.
Kingman, KS 67068-1968

ATTN: Jon Messenger

Kinsler-Dixon #1

4-29s-8w Kingman,KS

Start Date: 2013.11.26 @ 12:24:35

End Date: 2013.11.27 @ 07:02:05

Job Ticket #: 51828 DST #: 2

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

Printed: 2013.12.02 @ 11:31:44



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Messenger Petro. Inc.
 525 S. Main St.
 Kingman, KS 67068-1968
 ATTN: Jon Messenger

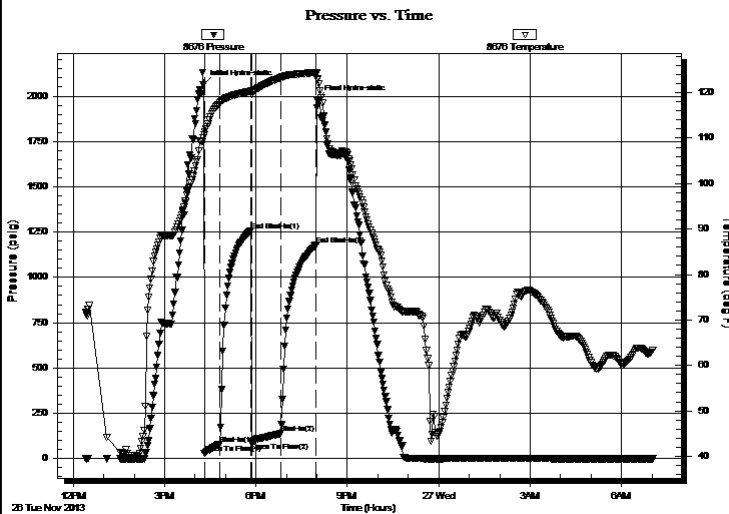
4-29s-8w Kingman,KS
Kinsler-Dixon #1
 Job Ticket: 51828 **DST#: 2**
 Test Start: 2013.11.26 @ 12:24:35

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 16:18:05
 Time Test Ended: 07:02:05
 Interval: **4178.00 ft (KB) To 4192.00 ft (KB) (TVD)**
 Total Depth: 4192.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Stuart Stover
 Unit No: 48
 Reference Elevations: 1675.00 ft (KB)
 1666.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8676 Inside
 Press@RunDepth: 137.44 psig @ 4179.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.26 End Date: 2013.11.27 Last Calib.: 2013.11.26
 Start Time: 12:24:40 End Time: 07:02:04 Time On Btm: 2013.11.26 @ 16:16:35
 Time Off Btm: 2013.11.26 @ 20:00:50

TEST COMMENT: IFP - BOB in 10 min
 ISI - No blow back
 FFP - Weak building blow built to 9"
 FSI - No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2064.32	110.05	Initial Hydro-static
2	28.52	110.69	Open To Flow (1)
32	79.18	117.75	Shut-In(1)
94	1258.28	120.34	End Shut-In(1)
95	87.24	119.63	Open To Flow (2)
152	137.44	123.26	Shut-In(2)
223	1180.32	124.47	End Shut-In(2)
225	1981.56	123.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	300' GIP	0.00
255.00	GMW 5%G 5%M 90%W	1.70

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Messenger Petro. Inc.
525 S. Main St.
Kingman, KS 67068-1968
ATTN: Jon Messenger

4-29s-8w Kingman,KS
Kinsler-Dixon #1
Job Ticket: 51828 **DST#: 2**
Test Start: 2013.11.26 @ 12:24:35

Tool Information

Drill Pipe:	Length: 3951.00 ft	Diameter: 3.80 inches	Volume: 55.42 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 56.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 84000.00 lb
Depth to Top Packer:	4178.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	40.00 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			4157.00	
Hydraulic tool	5.00			4162.00	
Jars	5.00			4167.00	
Safety Joint	2.00			4169.00	
Packer	5.00			4174.00	26.00 Bottom Of Top Packer
Packer	4.00			4178.00	
Stubb	1.00			4179.00	
Recorder	0.00	8676	Inside	4179.00	
Recorder	0.00	6773	Outside	4179.00	
Perforations	10.00			4189.00	
Bullnose	3.00			4192.00	14.00 Bottom Packers & Anchor

Total Tool Length: 40.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

Messenger Petro. Inc.

4-29s-8w Kingman,KS

525 S. Main St.
Kingman, KS 67068-1968

Kinsler-Dixon #1

Job Ticket: 51828

DST#: 2

ATTN: Jon Messenger

Test Start: 2013.11.26 @ 12:24:35

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 3.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	300' GIP	0.000
255.00	GMW 5%G 5%M 90%W	1.700

Total Length: 255.00 ft Total Volume: 1.700 bbl

Num Fluid Samples: 0

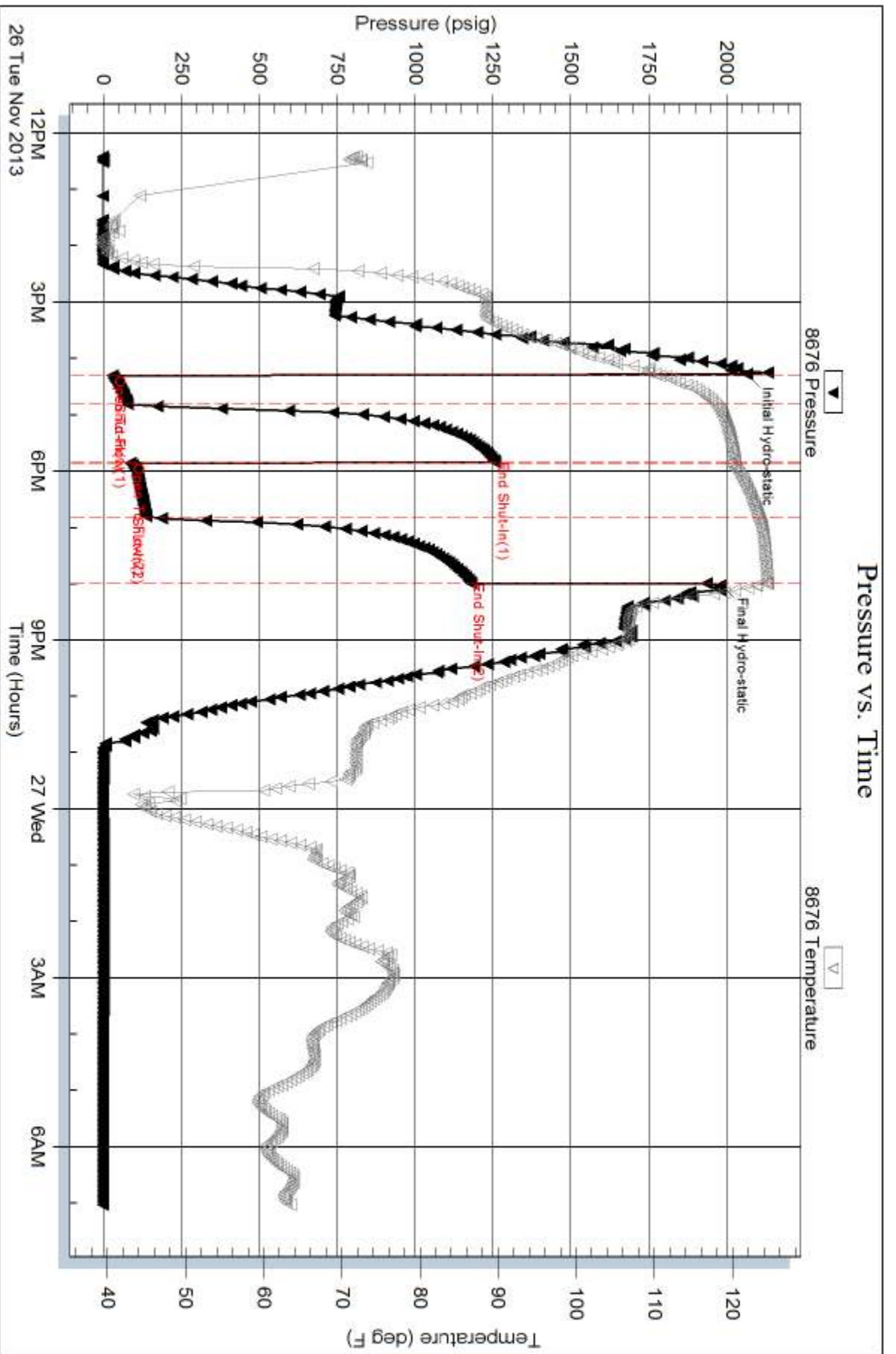
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

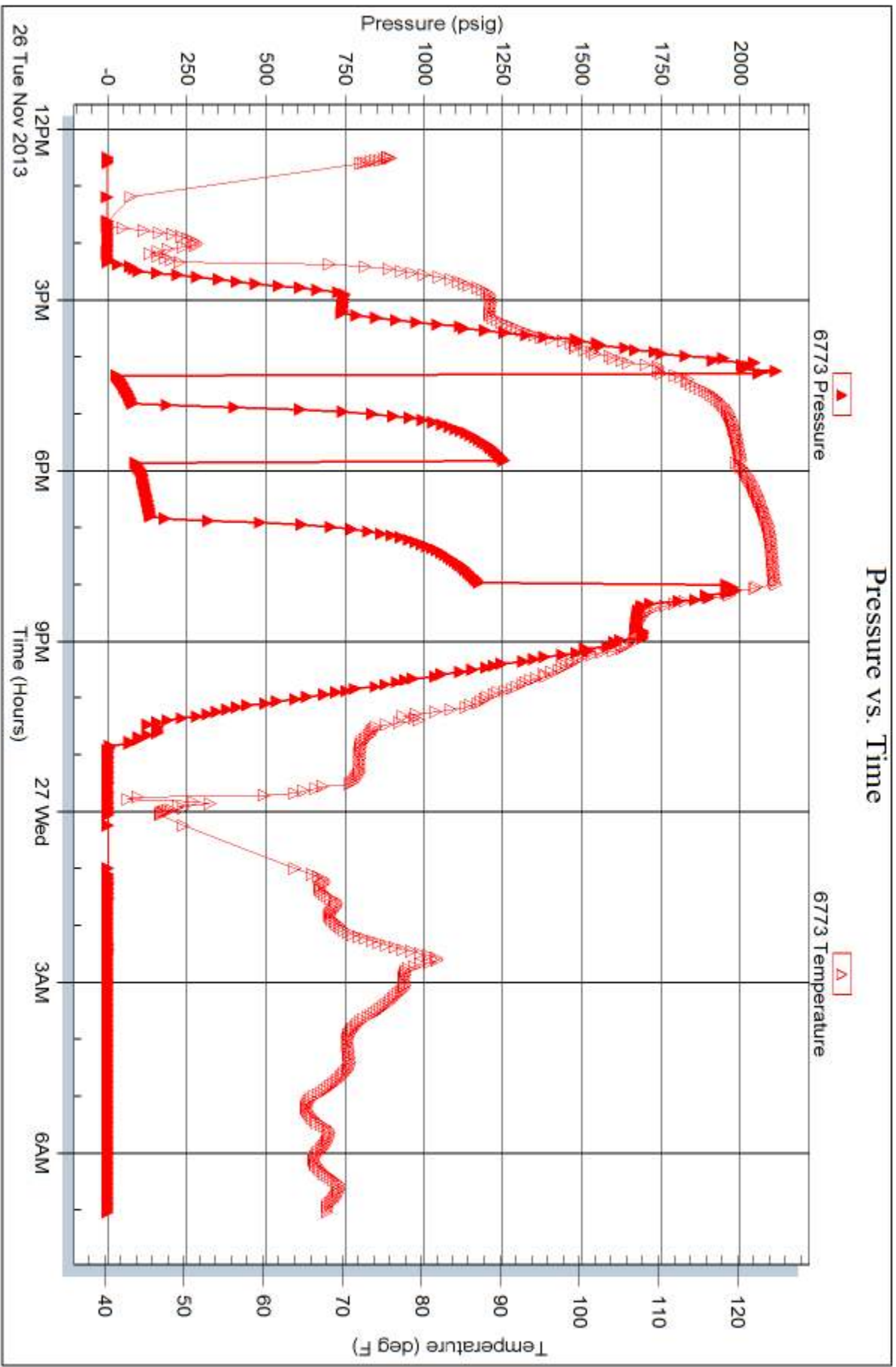


Serial #: 6773

Outside Messenger Petro. Inc.

Kinsler-Dixon #1

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51851

Well Name & No. Kinsler - Dixon #1 Test No. 1 Date 11-22-13
 Company Messenger Petro. Inc. Elevation 1675 KB 1666 GL
 Address 525 S. Main St. Kingman, KS 67068 - 1968
 Co. Rep / Geo. Jon Messenger Rig Sterling 4
 Location: Sec. 4 Twp. 29s. Rge. 8w. Co. Kingman State KS

Interval Tested 2327 - 2365 Zone Tested Indian Cave
 Anchor Length 38 Drill Pipe Run 2102 Mud Wt. 9.7
 Top Packer Depth 2322 Drill Collars Run 206 Vis 28
 Bottom Packer Depth 2327 Wt. Pipe Run Ø WL (Premix split on btm)
 Total Depth 2365 Chlorides 96000 ppm System LCM Ø

Blow Description IFI: Strong blow. BOB @ 2 1/2" No GTS
ISI: Weak surf. blow.
FF: Strong blow. BOB @ 6 min. No GTS
FSI: Weak surf. blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>MCW</u>		<u>55</u>	<u>45</u>	
<u>400</u>	<u>SLI 6 CMW</u>	<u>2</u>	<u>80</u>	<u>17</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 580 BHT 91 Gravity N/C API RW 15 @ 36 °F Chlorides 126000 ppm

(A) Initial Hydrostatic <u>1186</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0900</u>
(B) First Initial Flow <u>64</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1149</u>
(C) First Final Flow <u>197</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1413</u>
(D) Initial Shut-In <u>864</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1644</u>
(E) Second Initial Flow <u>205</u>	<input checked="" type="checkbox"/> Hourly Standby <u>1 hr.</u>	T-Out <u>1904</u>
(F) Second Final Flow <u>287</u>	<input checked="" type="checkbox"/> Mileage <u>90</u> <u>139.50</u>	Comments
(G) Final Shut-In <u>877</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1128</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby	Total <u>1614.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1614.50</u>	

Approved By

Our Representative

Ryan Reynolds

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. 51828

Well Name & No. KINSLER - DIXON 1 Test No. 417 2 Date 4-24-13
 Company Messenger Petroleum Elevation 1668 KB 1677 GL
 Address 525 S. MAIN KINGMAN KS 67068
 Co. Rep / Geo. Jon Messenger Rig Starling #4
 Location: Sec. 4 Twp. 29S Rge. 8W Co. KINGMAN State KS

Interval Tested 4178 - 4192 Zone Tested MISS
 Anchor Length 14' Drill Pipe Run 3948 Mud Wt. 9.1
 Top Packer Depth 4173 Drill Collars Run 208 Vis 60
 Bottom Packer Depth 4178 Wt. Pipe Run 0 WL 9.6
 Total Depth 4192 Chlorides 4500 ppm System LCM 3#
 Blow Description IF - BOB IN 10 MIN
FF - 1" Boulding to 9"

Rec	Feet of	%gas	%oil	%water	%mud
<u>300</u>	<u>GIP</u>				
<u>255</u>	<u>Gas mdy wtr</u>	<u>5</u>	<u>90</u>	<u>5</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT _____ Gravity _____ API RW 0.8 @ 75 °F Chlorides 95,000 ppm

(A) Initial Hydrostatic 2064 Test 1250 T-On Location 11:30 AM
 (B) First Initial Flow 29 Jars 250 T-Started 1:00
 (C) First Final Flow 79 Safety Joint 75 T-Open 4:20
 (D) Initial Shut-In 1258 Circ Sub _____ T-Pulled 7:50
 (E) Second Initial Flow 87 Hourly Standby _____ T-Out 10:30
 (F) Second Final Flow 137 Mileage 139.50 Comments _____
 (G) Final Shut-In 1180 Sampler _____
 (H) Final Hydrostatic 1981 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1714.50
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1714.50

Approved By _____ Our Representative Shawn Ste...
 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.