



DRILL STEM TEST REPORT

Prepared For: **Oil Producers Inc of KS**

1710 Waterfront PKWY
Wichita KS 67206

ATTN: Brian McCoy/ Mac Arm

Hayes # 1-4

4-34s-31w Seward,KS

Start Date: 2012.02.02 @ 19:25:58

End Date: 2012.02.03 @ 06:24:13

Job Ticket #: 47453 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.15 @ 10:01:20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Oil Producers Inc of KS

4-34s-31w Seward,KS

1710 Waterfront PKWY
Wichita KS 67206

Hayes # 1-4

Job Ticket: 47453

DST#: 1

ATTN: Brian McCoy/ Mac Arm

Test Start: 2012.02.02 @ 19:25:58

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:30:58

Time Test Ended: 06:24:13

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

Interval: 5074.00 ft (KB) To 5165.00 ft (KB) (TVD)

Reference Elevations: 2613.00 ft (KB)

Total Depth: 5165.00 ft (KB) (TVD)

2606.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6773 Outside

Press@RunDepth: 636.64 psig @ 5075.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.02

End Date: 2012.02.03

Last Calib.: 2012.02.03

Start Time: 19:26:03

End Time: 06:24:13

Time On Btm: 2012.02.02 @ 23:29:13

Time Off Btm: 2012.02.03 @ 02:35:13

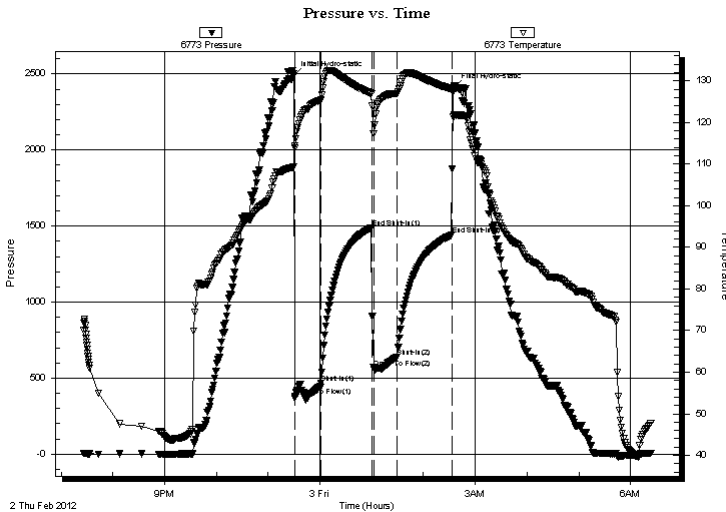
TEST COMMENT: IF: Strong blow BOB 1 min GTS 15 min [see gas flow report]

IS: Strong blow back

FF: Strong blow BOB 2 sec [see gas flow report]

FS: Strong blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2488.59	109.31	Initial Hydro-static
2	381.44	114.37	Open To Flow (1)
32	467.89	125.38	Shut-In(1)
91	1490.42	126.93	End Shut-In(1)
93	568.26	117.33	Open To Flow (2)
120	636.64	127.00	Shut-In(2)
184	1440.72	128.01	End Shut-In(2)
186	2413.10	121.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	5060' GIP	0.00
270.00	O,W,M,G 10%oil 10%water 20%mud 50%	1.33
450.00	W,O,G,M 5%water 10%oil 20%gas 65%	5.43
810.00	WATER 100%	11.36

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	4.00	124.12
Last Gas Rate	0.13	7.00	8.01
Max. Gas Rate	0.13	7.00	8.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Oil Producers Inc of KS

4-34s-31w Seward,KS

1710 Waterfront PKWY
Wichita KS 67206

Hayes # 1-4

Job Ticket: 47453

DST#: 1

ATTN: Brian McCoy/ Mac Arm

Test Start: 2012.02.02 @ 19:25:58

Tool Information

Drill Pipe:	Length: 4693.00 ft	Diameter: 3.80 inches	Volume: 65.83 bbl	Tool Weight: 2800.00 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: 367.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 67.63 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 88000.00 lb
Depth to Top Packer:	5074.00 ft			Final 98000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	120.00 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			5046.00	
Shut In Tool	5.00			5051.00	
Hydraulic tool	5.00			5056.00	
Jars	5.00			5061.00	
Safety Joint	3.00			5064.00	
Packer	5.00			5069.00	29.00 Bottom Of Top Packer
Packer	5.00			5074.00	
Stubb	1.00			5075.00	
Recorder	0.00	6773	Outside	5075.00	
Recorder	0.00	8676	Outside	5075.00	
Change Over Sub	0.50			5075.50	
Drill Pipe	63.00			5138.50	
Change Over Sub	0.50			5139.00	
Perforations	23.00			5162.00	
Bullnose	3.00			5165.00	91.00 Bottom Packers & Anchor

Total Tool Length: 120.00



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FLUID SUMMARY

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4-34s-31w Seward,KS

1710 Waterfront PKWY
Wichita KS 67206

Hayes # 1-4

Job Ticket: 47453

DST#: 1

ATTN: Brian McCoy/ Mac Arm

Test Start: 2012.02.02 @ 19:25:58

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	5060' GIP	0.000
270.00	O,W,M,G 10%oil 10%water 20%mud 50%gas	1.328
450.00	W,O,G,M 5%water 10%oil 20%gas 65%mud	5.429
810.00	WATER 100%	11.362

Total Length: 1530.00 ft

Total Volume: 18.119 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

GAS RATES

Oil Producers Inc of KS

4-34s-31w Seward,KS

1710 Waterfront PKWY
Wichita KS 67206

Hayes # 1-4

Job Ticket: 47453

DST#: 1

ATTN: Brian McCoy/ Mac Arm

Test Start: 2012.02.02 @ 19:25:58

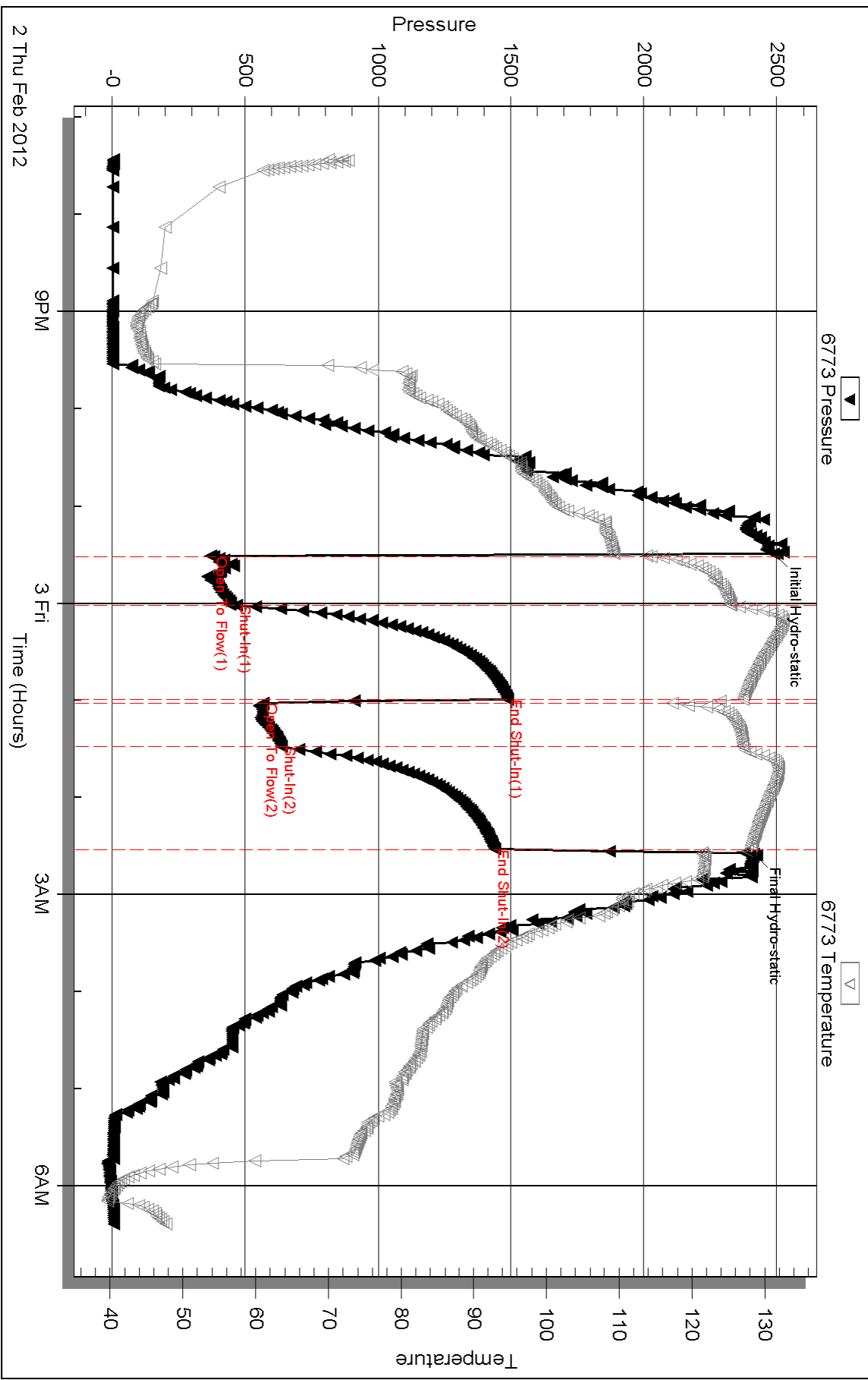
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	20	0.50	4.00	124.12
1	20	0.50	4.00	124.12
1	25	0.50	5.00	130.87
1	30	0.50	3.00	117.38
2	10	0.13	2.00	6.14
2	20	0.13	7.00	8.01

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Oil Producers Inc of KS**

1710 Waterfront PKWY
Wichita KS 67206

ATTN: Brian McCoy/ Mac Arm

Hayes # 1-4

4-34s-31w Seward,KS

Start Date: 2012.02.04 @ 09:00:00

End Date: 2012.02.04 @ 18:27:00

Job Ticket #: 41236 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.15 @ 10:00:32



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DRILL STEM TEST REPORT

Oil Producers Inc of KS

4-34s-31w Seward,KS

1710 Waterfront PKWY
Wichita KS 67206

Hayes # 1-4

ATTN: Brian McCoy/ Mac Arm

Job Ticket: 41236

DST#: 2

Test Start: 2012.02.04 @ 09:00:00

GENERAL INFORMATION:

Formation: **Morrow/Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:39:00

Time Test Ended: 18:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Harley Davidson

Unit No: 58

Interval: 5665.00 ft (KB) To 5735.00 ft (KB) (TVD)

Reference Elevations: 2613.00 ft (KB)

Total Depth: 5735.00 ft (KB) (TVD)

2606.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6772 Outside

Press @ Run Depth: 57.22 psig @ 5667.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.04

End Date:

2012.02.04

Last Calib.:

2012.02.04

Start Time: 09:00:05

End Time:

18:27:00

Time On Btm:

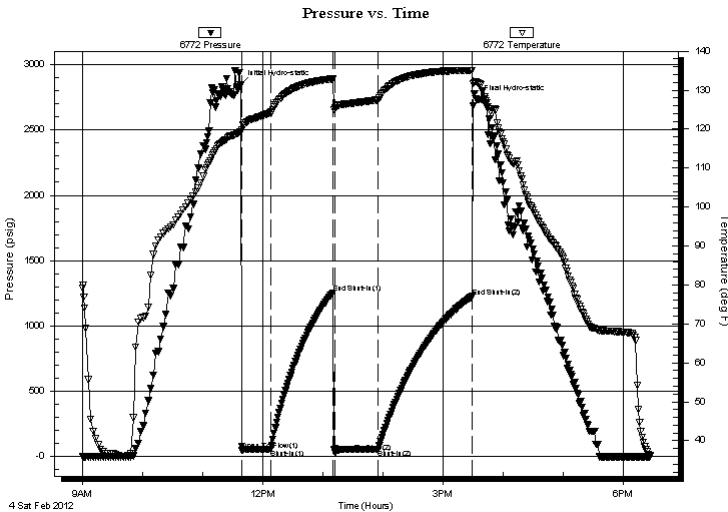
2012.02.04 @ 11:37:30

Time Off Btm:

2012.02.04 @ 15:33:45

TEST COMMENT: IF- Strong blow BOB ASAO, NO GTS.
IS- No blow back.
FF- Strong blow BOB, ASAO, GTS 1min, TSTM.
FS- No blow back

PRESSURE SUMMARY



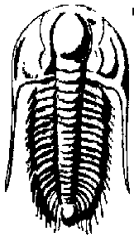
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2843.04	119.37	Initial Hydro-static
2	50.61	119.92	Open To Flow (1)
30	55.79	124.06	Shut-In(1)
93	1255.08	132.88	End Shut-In(1)
95	36.30	125.45	Open To Flow (2)
138	57.22	127.49	Shut-In(2)
232	1224.32	135.05	End Shut-In(2)
237	2730.88	132.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	100% mud	0.91

Gas Rates

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



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Hayes # 1-4

ATTN: Brian McCoy/ Mac Arm

Job Ticket: 41236

DST#: 2

Test Start: 2012.02.04 @ 09:00:00

GENERAL INFORMATION:

Formation: **Morrow/Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:39:00

Time Test Ended: 18:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Harley Davidson

Unit No: 58

Interval: **5665.00 ft (KB) To 5735.00 ft (KB) (TVD)**

Reference Elevations: 2613.00 ft (KB)

Total Depth: 5735.00 ft (KB) (TVD)

2606.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: **8355** Inside

Press @ Run Depth: psig @ 5667.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.04

End Date:

2012.02.04

Last Calib.:

2012.02.04

Start Time: 09:00:05

End Time:

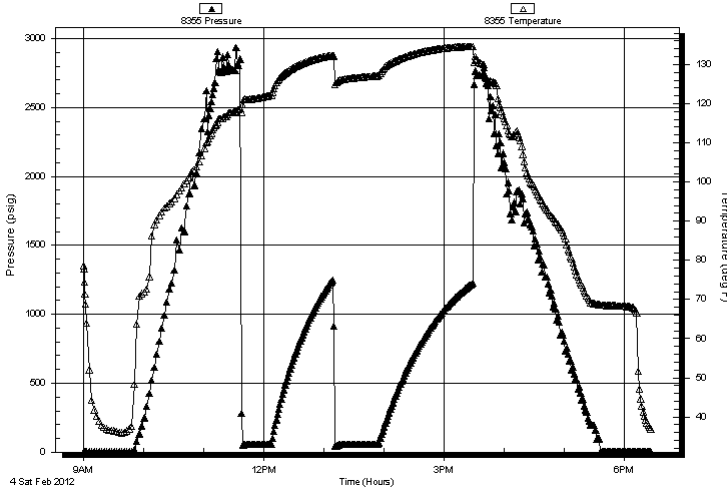
18:26:30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- Strong blow BOB ASAO, NO GTS.
IS- No blow back.
FF- Strong blow BOB, ASAO, GTS 1min, TSTM.
FS- No blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
185.00	100% mud	0.91

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Oil Producers Inc of KS

4-34s-31w Seward,KS

1710 Waterfront PKWY
Wichita KS 67206

Hayes # 1-4

Job Ticket: 41236

DST#: 2

ATTN: Brian McCoy/ Mac Arm

Test Start: 2012.02.04 @ 09:00:00

Tool Information

Drill Pipe:	Length: 5286.00 ft	Diameter: 3.80 inches	Volume: 74.15 bbl	Tool Weight: 2000.00 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: 367.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 75.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 92000.00 lb
Depth to Top Packer:	5665.00 ft			Final 98000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	97.00 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			5639.00	
Shut In Tool	5.00			5644.00	
Hydraulic tool	5.00			5649.00	
Jars	5.00			5654.00	
Safety Joint	2.00			5656.00	
Packer	5.00			5661.00	27.00 Bottom Of Top Packer
Packer	4.00			5665.00	
Stubb	1.00			5666.00	
Perforations	1.00			5667.00	
Recorder	0.00	8355	Inside	5667.00	
Recorder	0.00	6772	Outside	5667.00	
Change Over Sub	1.00			5668.00	
Drill Pipe	62.00			5730.00	
Change Over Sub	1.00			5731.00	
Perforations	1.00			5732.00	
Bullnose	3.00			5735.00	70.00 Bottom Packers & Anchor
Total Tool Length:	97.00				



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1710 Waterfront PKWY
Wichita KS 67206

Hayes # 1-4

Job Ticket: 41236

DST#: 2

ATTN: Brian McCoy/ Mac Arm

Test Start: 2012.02.04 @ 09:00:00

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: ppm

Viscosity: 58.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	100% mud	0.910

Total Length: 185.00 ft Total Volume: 0.910 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

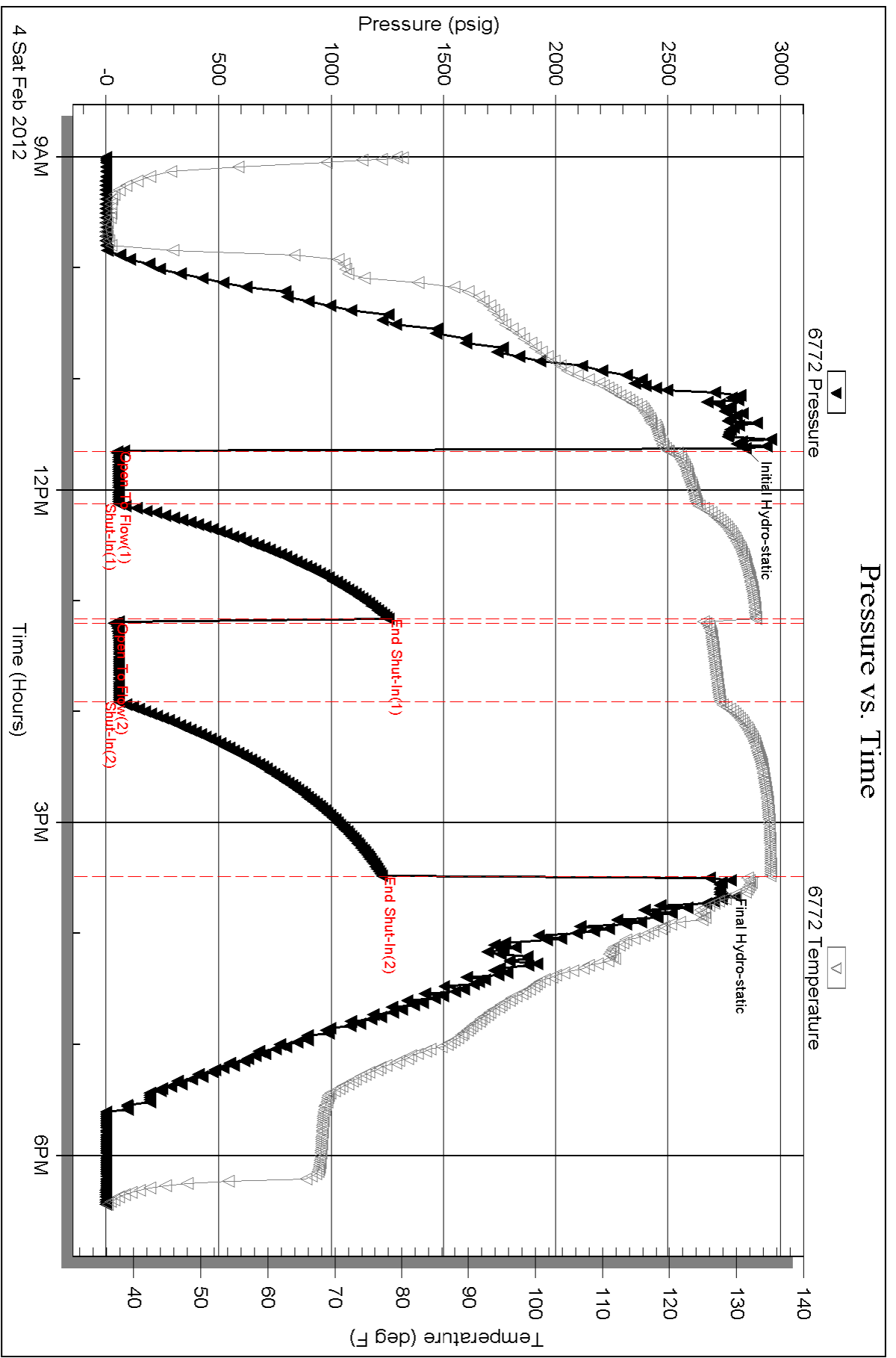
Recovery Comments:

Serial #: 6772

Outside Oil Producers Inc of KS

Hayes # 1-4

DST Test Number: 2



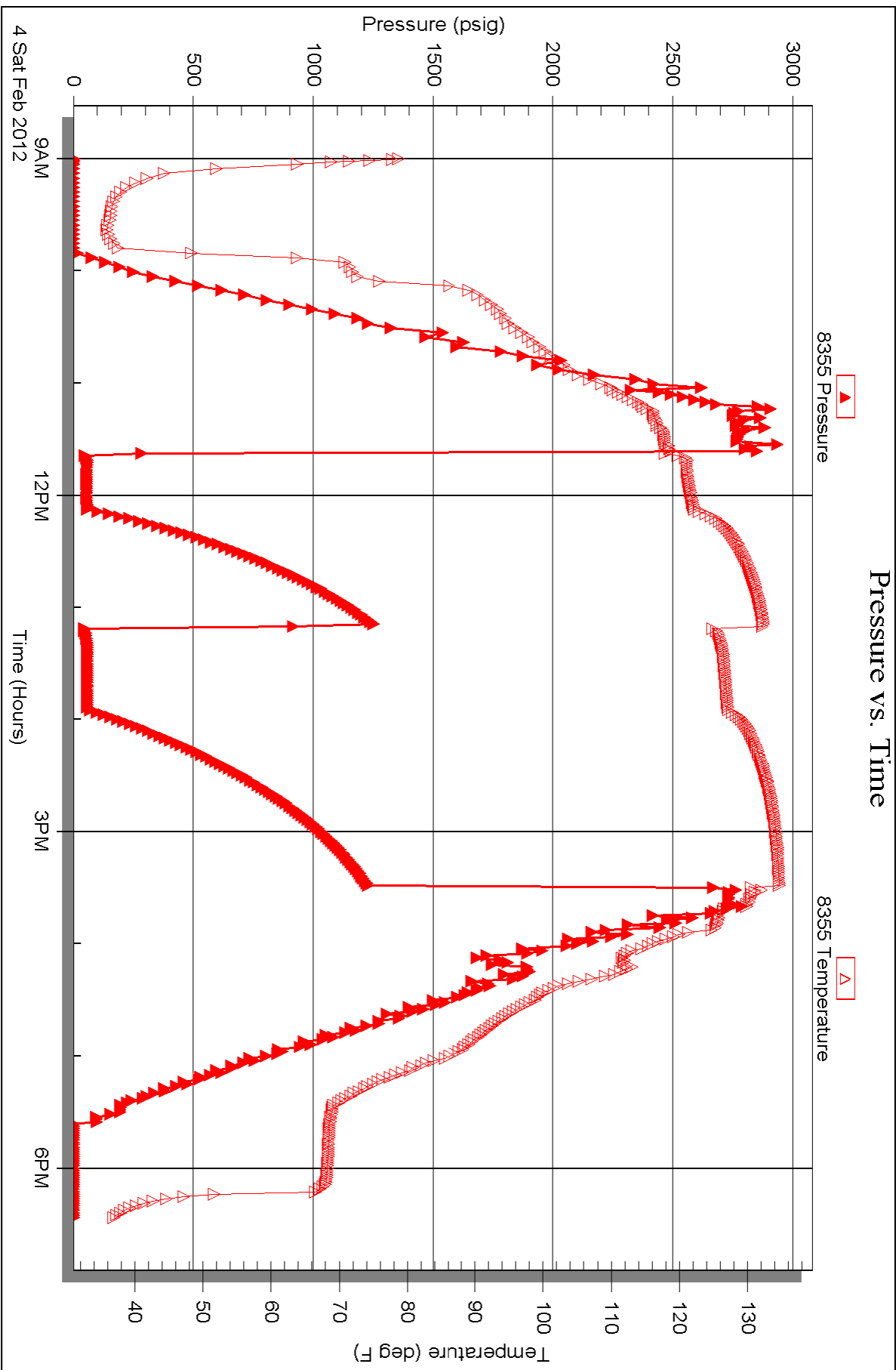
Serial #: 8355

Inside

Oil Producers Inc of KS

Hayes # 1-4

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 10 2012

Test Ticket

NO. 47453

4/10

Well Name & No. Hayes #1-4 Test No. 1 Date 2-2-12
 Company Oil Producers INC OF KS Elevation 2613 KB 2606 GL
 Address 1710 waterfront PKWY Wichita KS 67206
 Co. Rep / Geo. Brian McCoy / Mac Armstrong Rig Duke #6
 Location: Sec. 4 Twp. 34S Rge. 31W Co. Seward State KS

Interval Tested 5074 - 5165 Zone Tested Marmaton
 Anchor Length 91' Drill Pipe Run 4693 Mud Wt. 9.0
 Top Packer Depth 5069 Drill Collars Run 367 Vis 57
 Bottom Packer Depth 5074 Wt. Pipe Run 0 WL 8.4
 Total Depth 5165 Chlorides 2800 ppm System LCM 9#

Blow Description IF: STRONG blow BOB 1min GTS 15min see gas flow report
ISF: STRONG blow back
FF: STRONG blow BOB 2 sec see gas flow report
FSF: STRONG blow back

Rec	Feet of	%gas	%oil	%water	%mud
	<u>5060' GTP</u>				
Rec <u>270'</u>	Feet of <u>O, W, M, G</u>	<u>50</u> %gas	<u>10</u> %oil	<u>10</u> %water	<u>20</u> %mud
Rec <u>450'</u>	Feet of <u>W, O, G, M</u>	<u>20</u> %gas	<u>10</u> %oil	<u>5</u> %water	<u>65</u> %mud
Rec <u>810</u>	Feet of <u>W</u>	%gas	%oil	<u>100</u> %water	%mud

Rec Total 1530' BHT 1250 Gravity ✓ API RW 47 @ 25 °F Chlorides 44,000 ppm

(A) Initial Hydrostatic 2488 Test 1325' T-On Location 19:00
 (B) First Initial Flow 381 Jars 250' T-Started 19:25
 (C) First Final Flow 467 Safety Joint 75' T-Open 23:30
 (D) Initial Shut-In 1490 Circ Sub _____ T-Pulled 2:35
 (E) Second Initial Flow 568 Hourly Standby _____ T-Out 6:00
 (F) Second Final Flow 636 Mileage 130RT 182' Comments _____
 (G) Final Shut-In 1440 Sampler _____
 (H) Final Hydrostatic 2413 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1832'
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1832'

Approved By _____ Our Representative Ch. [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

RECEIVED
FEB 07 2012

Test Ticket

NO. 041236

Well Name & No. Hayes 1-4 BY: _____ Test No. 2 Date 2-4-12
 Company Oil Producers Inc. Elevation 2624 KB 2613 GL
 Address 1710 Waterfront Pkwy Wichita KS 67206
 Co. Rep / Geo. Mac Armstrong Rig Duke #6
 Location: Sec. 4 Twp. 34 Rge. 31 Co. Seward State KS

Interval Tested 5665 5735 Zone Tested Morrow MISS
 Anchor Length 70 Drill Pipe Run 5286 Mud Wt. 9.2
 Top Packer Depth 5660 Drill Collars Run 367 Vis 58
 Bottom Packer Depth 5665 Wt. Pipe Run 0 WL 8.4
 Total Depth 5735 Chlorides 2800 ppm System LCM 8
 Blow Description IF - Strong blow BOB ASAO No BTS.
ZSI - No blow back
FF - Strong blow BOB ASAO BTS 1min. TSTM
FST No blow back

Rec	Feet of	%gas	%oil	%water	%mud
185'				100%	

Rec Total 185 BHT 2843 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic	<u>2843</u>	<input type="checkbox"/> Test	<u>1325 11WS</u>	T-On Location	<u>400 Am</u>
(B) First Initial Flow	<u>51</u>	<input type="checkbox"/> Jars	<u>250</u>	T-Started	<u>900 Am</u>
(C) First Final Flow	<u>36</u>	<input type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>1115 Am</u>
(D) Initial Shut-In	<u>1255</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>300 PM</u>
(E) Second Initial Flow	<u>36</u>	<input type="checkbox"/> Hourly Standby	<u>300</u>	T-Out	<u>600 PM</u>
(F) Second Final Flow	<u>57</u>	<input type="checkbox"/> Mileage	<u>130RT/182</u>	Comments	
(G) Final Shut-In	<u>1224</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2731</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	<u>350</u>
		<input type="checkbox"/> Shale Packer	<u>250</u>	<input type="checkbox"/> Ruined Packer	
Initial Open	<u>30</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>350</u>
Final Flow	<u>45</u>	<input type="checkbox"/> Day Standby		Total	<u>2732</u>
Final Shut-In	<u>90</u>	<input type="checkbox"/> Accessibility		MP/DST Disc't	
		Sub Total	<u>2382</u>		

Approved By Mac Armstrong 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.