



DRILL STEM TEST REPORT

Prepared For: **Ponderosa Witching LLC**

110 A Spring Creek
Waco TX 76705

ATTN: Dave Williams

27-29s-15w Pratt,KS

E & J Legacy Epp #1

Start Date: 2012.08.19 @ 01:55:59

End Date: 2012.08.19 @ 08:45:14

Job Ticket #: 47597 DST #: 1

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

Printed: 2012.08.24 @ 10:43:55



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ponderosa Witching LLC

E & J Legacy Epp #1

110 A Spring Creek
Waco TX 76705

27-29s-15w Pratt,KS

ATTN: Dave Williams

Job Ticket: 47597

DST#: 1

Test Start: 2012.08.19 @ 01:55:59

GENERAL INFORMATION:

Formation: **Maquoketa**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:02:14

Time Test Ended: 08:45:14

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4485.00 ft (KB) To 4590.00 ft (KB) (TVD)

Reference Elevations: 1963.00 ft (KB)

Total Depth: 4590.00 ft (KB) (TVD)

1954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 25.54 psig @ 4486.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.19

End Date:

2012.08.19

Last Calib.:

2012.08.19

Start Time: 01:56:04

End Time:

08:45:13

Time On Btm:

2012.08.19 @ 04:01:14

Time Off Btm:

2012.08.19 @ 06:35:59

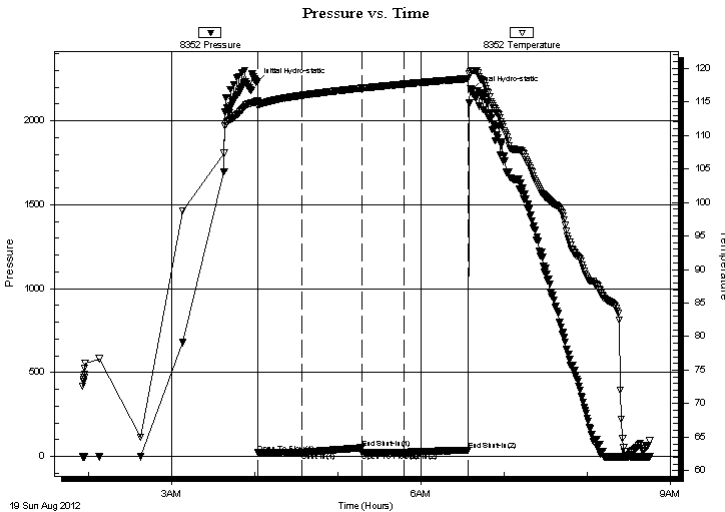
TEST COMMENT: IF:Weak blow . 1/4". Dead in 22 mins.

IS:No blow .

FF:No blow .

FS:No blow .

PRESSURE SUMMARY



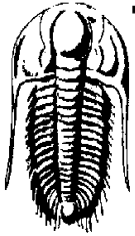
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2229.86	115.04	Initial Hydro-static
1	22.10	114.36	Open To Flow (1)
33	24.92	115.96	Shut-In(1)
76	51.76	117.04	End Shut-In(1)
77	25.05	117.03	Open To Flow (2)
107	25.54	117.64	Shut-In(2)
153	38.19	118.47	End Shut-In(2)
155	2182.91	119.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig.mud	0.02

Gas Rates

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



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ATTN: Dave Williams

Job Ticket: 47597

DST#: 1

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Deviated: No Whipstock: ft (KB)

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Time Test Ended: 08:45:14

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4485.00 ft (KB) To 4590.00 ft (KB) (TVD)

Reference Elevations: 1963.00 ft (KB)

Total Depth: 4590.00 ft (KB) (TVD)

1954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8370 Inside

Press @RunDepth: psig @ 4486.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.19

End Date: 2012.08.19

Last Calib.: 2012.08.19

Start Time: 01:51:39

End Time: 08:42:18

Time On Btm:

Time Off Btm:

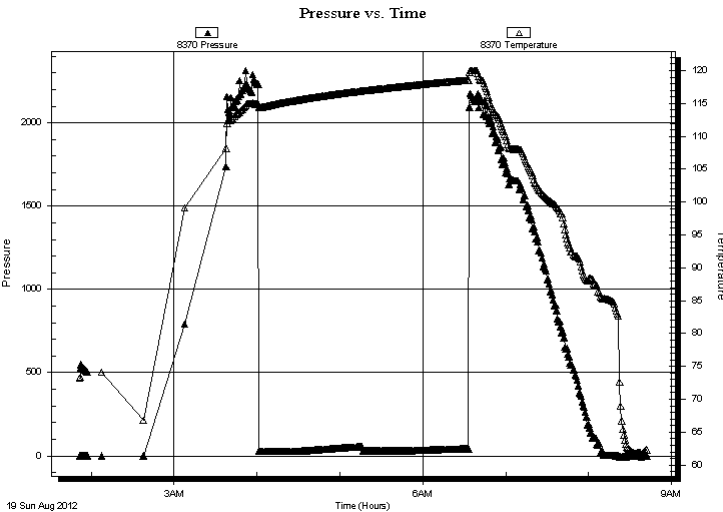
TEST COMMENT: IF:Weak blow . 1/4". Dead in 22 mins.

IS:No blow .

FF:No blow .

FS:No blow .

PRESSURE SUMMARY



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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	Drig.mud	0.02

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ponderosa Witching LLC

E & J Legacy Epp #1

110 A Spring Creek
Waco TX 76705

27-29s-15w Pratt,KS

Job Ticket: 47597

DST#: 1

ATTN: Dave Williams

Test Start: 2012.08.19 @ 01:55:59

Tool Information

Drill Pipe:	Length: 4270.00 ft	Diameter: 3.80 inches	Volume: 59.90 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: 24000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 60.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4485.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.00 ft			
Tool Length:	133.00 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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C.O. Sub	1.00			4458.00	
Shut in tool	5.00			4463.00	
HMV	5.00			4468.00	
Jars	5.00			4473.00	
Safety Joint	3.00			4476.00	
Packer	4.00			4480.00	28.00 Bottom Of Top Packer
Packer	5.00			4485.00	
Stubb	1.00			4486.00	
Recorder	0.00	8370	Inside	4486.00	
Recorder	0.00	8352	Outside	4486.00	
Perforations	5.00			4491.00	
Blank Spacing	94.00			4585.00	
Bullnose	5.00			4590.00	105.00 Bottom Packers & Anchor

Total Tool Length: 133.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ponderosa Witching LLC

E & J Legacy Epp #1

110 A Spring Creek
Waco TX 76705

27-29s-15w Pratt,KS

Job Ticket: 47597

DST#: 1

ATTN: Dave Williams

Test Start: 2012.08.19 @ 01:55:59

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:

7000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig.mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

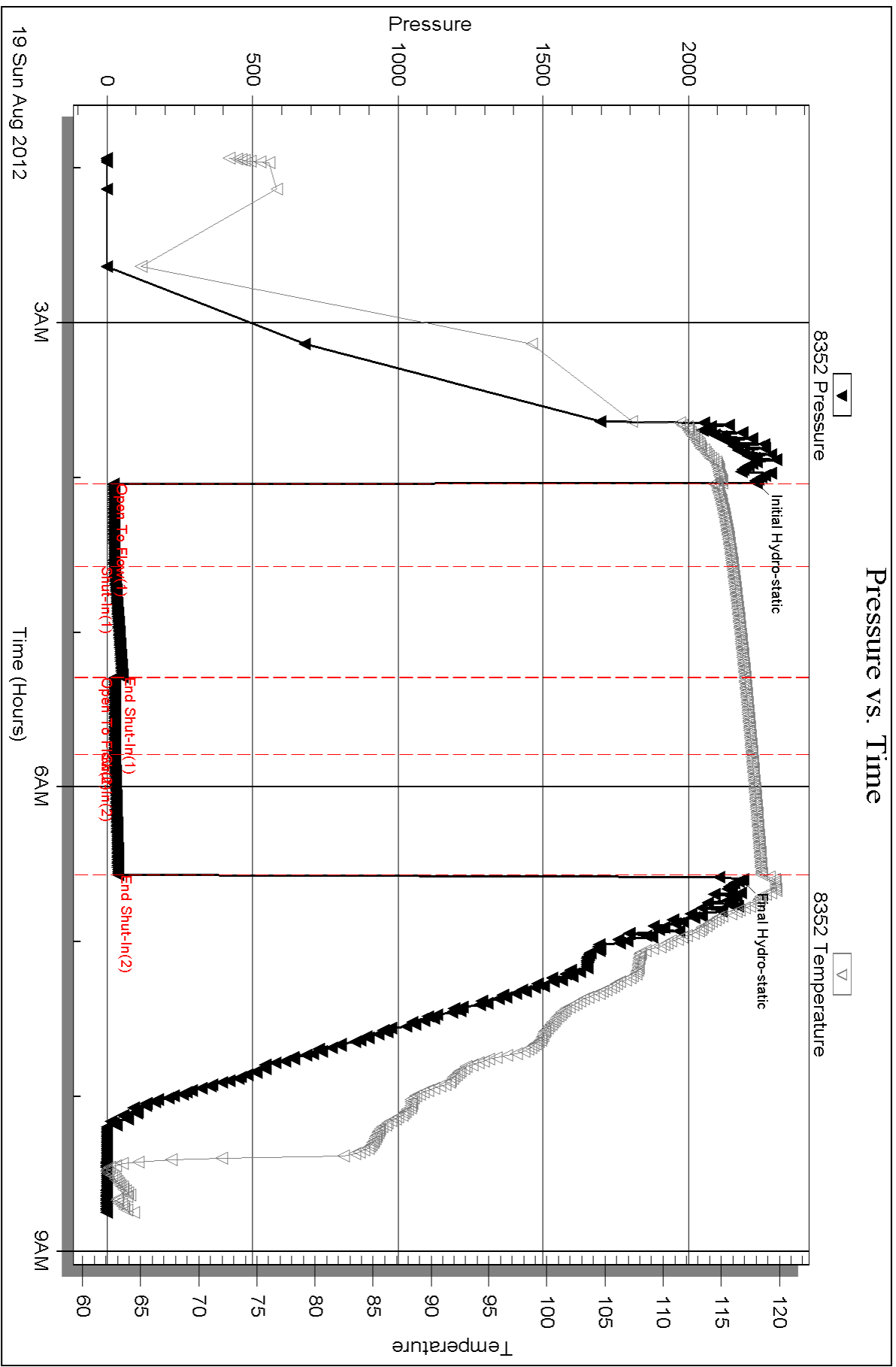
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



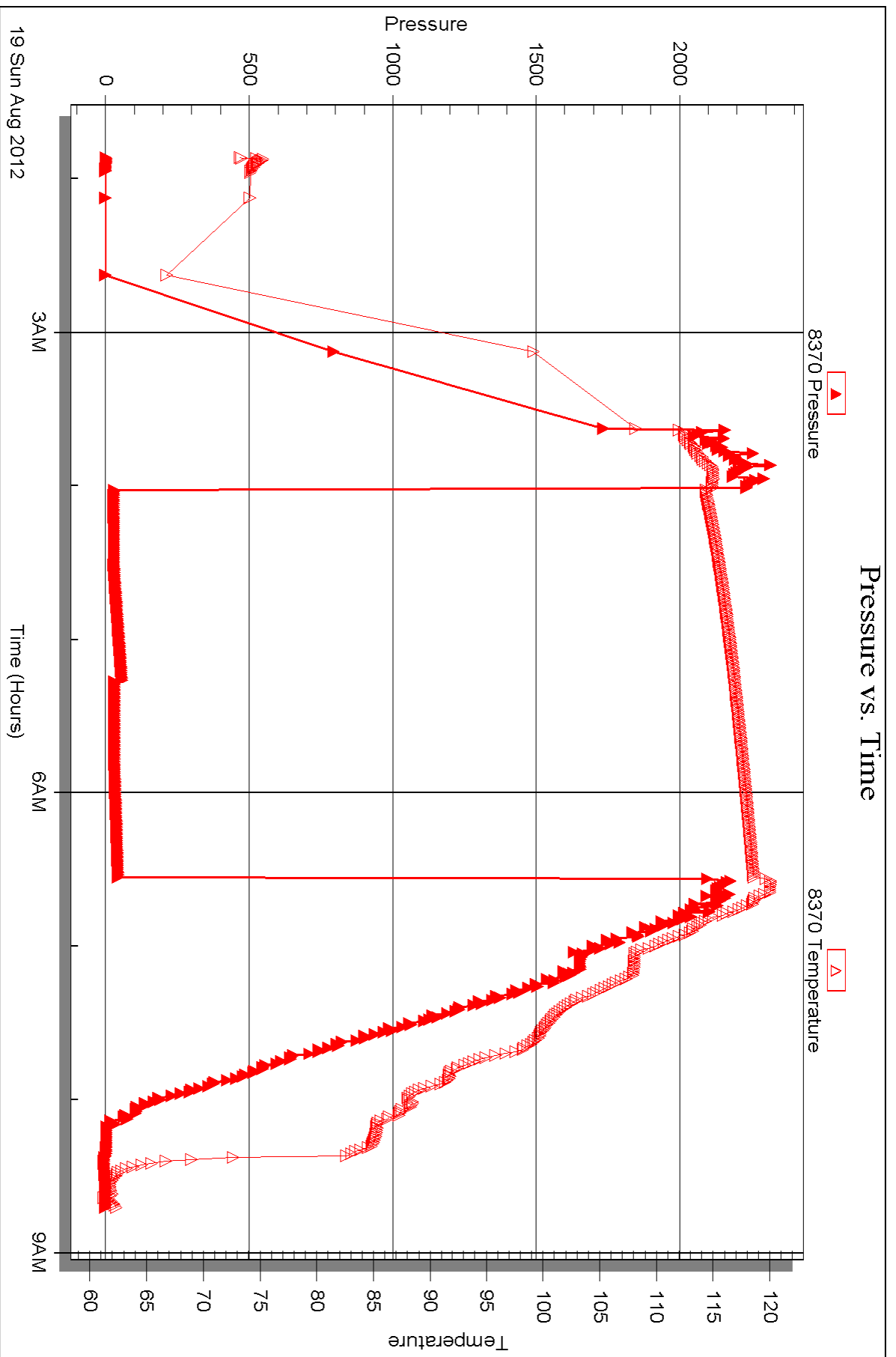
Serial #: 8370

Inside

Ponderosa Wlching LLC

27-29s-15w Pratt, KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Ponderosa Witching LLC**

110 A Spring Creek
Waco TX 76705

ATTN: Dave Williams

27-29s-15w Pratt,KS

E & J Legacy Epp #1

Start Date: 2012.08.20 @ 00:38:11

End Date: 2012.08.20 @ 08:29:26

Job Ticket #: 47598 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.24 @ 10:42:55

Ponderosa Witching LLC

E & J Legacy Epp #1

27-29s-15w Pratt,KS

DST # 2

Simpson Sd.

2012.08.20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ponderosa Witching LLC

E & J Legacy Epp #1

110 A Spring Creek
Waco TX 76705

27-29s-15w Pratt,KS

ATTN: Dave Williams

Job Ticket: 47598

DST#: 2

Test Start: 2012.08.20 @ 00:38:11

GENERAL INFORMATION:

Formation: **Simpson Sd.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:42:26

Time Test Ended: 08:29:26

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 4668.00 ft (KB) To 4721.00 ft (KB) (TVD)

Reference Elevations: 1963.00 ft (KB)

Total Depth: 4721.00 ft (KB) (TVD)

1954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8352 Outside

Press @ RunDepth: 86.59 psig @ 4669.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.20

End Date:

2012.08.20

Last Calib.:

2012.08.20

Start Time: 00:38:16

End Time:

08:29:25

Time On Btm:

2012.08.20 @ 02:41:11

Time Off Btm:

2012.08.20 @ 05:59:26

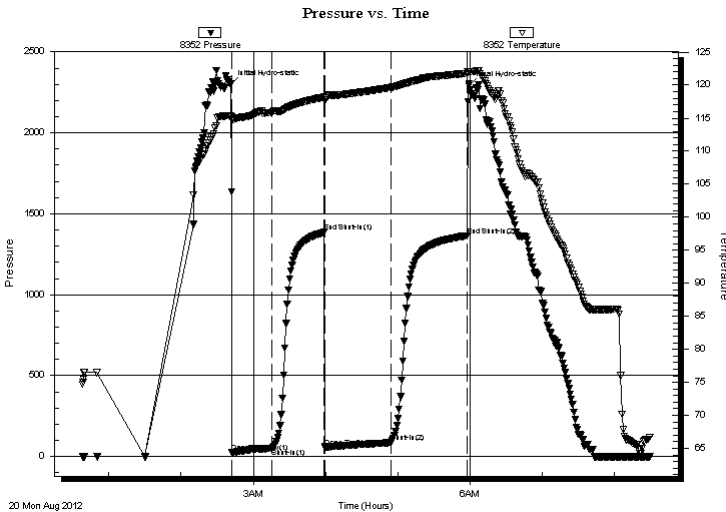
TEST COMMENT: IF:Weak blow . 1/2 - 2 1/2".

IS:No blow .

FF:Weak blow . 1/2 - 3".

FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2300.74	115.39	Initial Hydro-static
2	24.12	114.80	Open To Flow (1)
35	51.75	115.91	Shut-In(1)
78	1385.07	118.17	End Shut-In(1)
79	56.55	117.76	Open To Flow (2)
133	86.59	119.64	Shut-In(2)
196	1364.74	121.78	End Shut-In(2)
199	2292.05	122.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	OCM 18%o 82%m	0.64
15.00	Clean oil	0.07
0.00	120 ft.of GIP	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

Ponderosa Witching LLC

E & J Legacy Epp #1

110 A Spring Creek
Waco TX 76705

27-29s-15w Pratt,KS

ATTN: Dave Williams

Job Ticket: 47598

DST#: 2

Test Start: 2012.08.20 @ 00:38:11

Tool Information

Drill Pipe:	Length: 4461.00 ft	Diameter: 3.80 inches	Volume: 62.58 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: 24000.00 lb
Drill Collar:	Length: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 91000.00 lb
			<u>Total Volume: 63.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4668.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	81.00 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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C.O. Sub	1.00			4641.00	
Shut in tool	5.00			4646.00	
HMV	5.00			4651.00	
Jars	5.00			4656.00	
Safety Joint	3.00			4659.00	
Packer	4.00			4663.00	28.00 Bottom Of Top Packer
Packer	5.00			4668.00	
Stubb	1.00			4669.00	
Recorder	0.00	8370	Inside	4669.00	
Recorder	0.00	8352	Outside	4669.00	
Perforations	7.00			4676.00	
Blank Spacing	32.00			4708.00	
Perforations	8.00			4716.00	
Bullnose	5.00			4721.00	53.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Ponderosa Witching LLC

E & J Legacy Epp #1

110 A Spring Creek
Waco TX 76705

27-29s-15w Pratt,KS

Job Ticket: 47598

DST#: 2

ATTN: Dave Williams

Test Start: 2012.08.20 @ 00:38:11

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31.3 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

7000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
130.00	OCM 18%o 82%m	0.639
15.00	Clean oil	0.074
0.00	120 ft.of GIP	0.000

Total Length: 145.00 ft

Total Volume: 0.713 bbl

Num Fluid Samples: 0

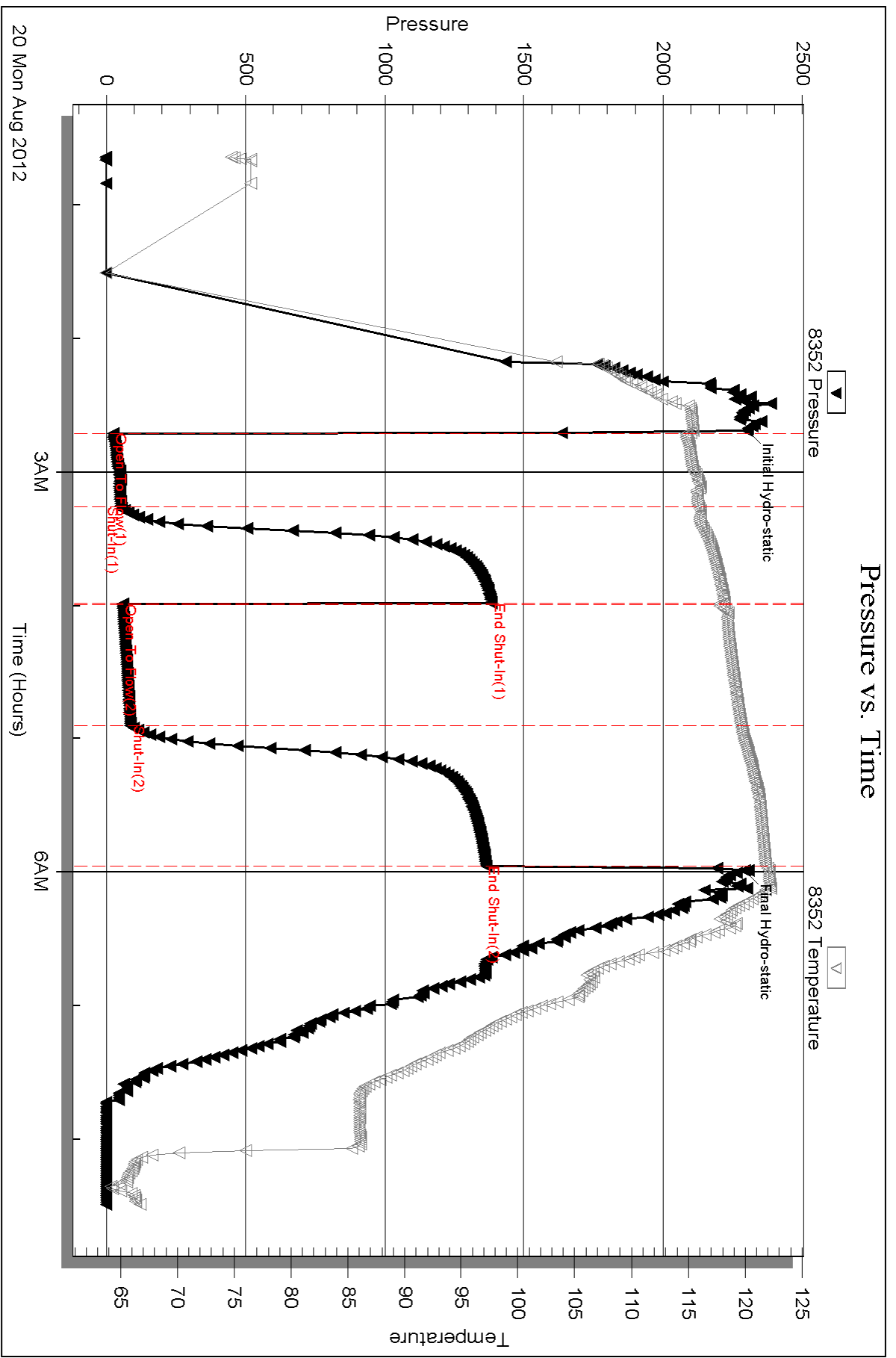
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



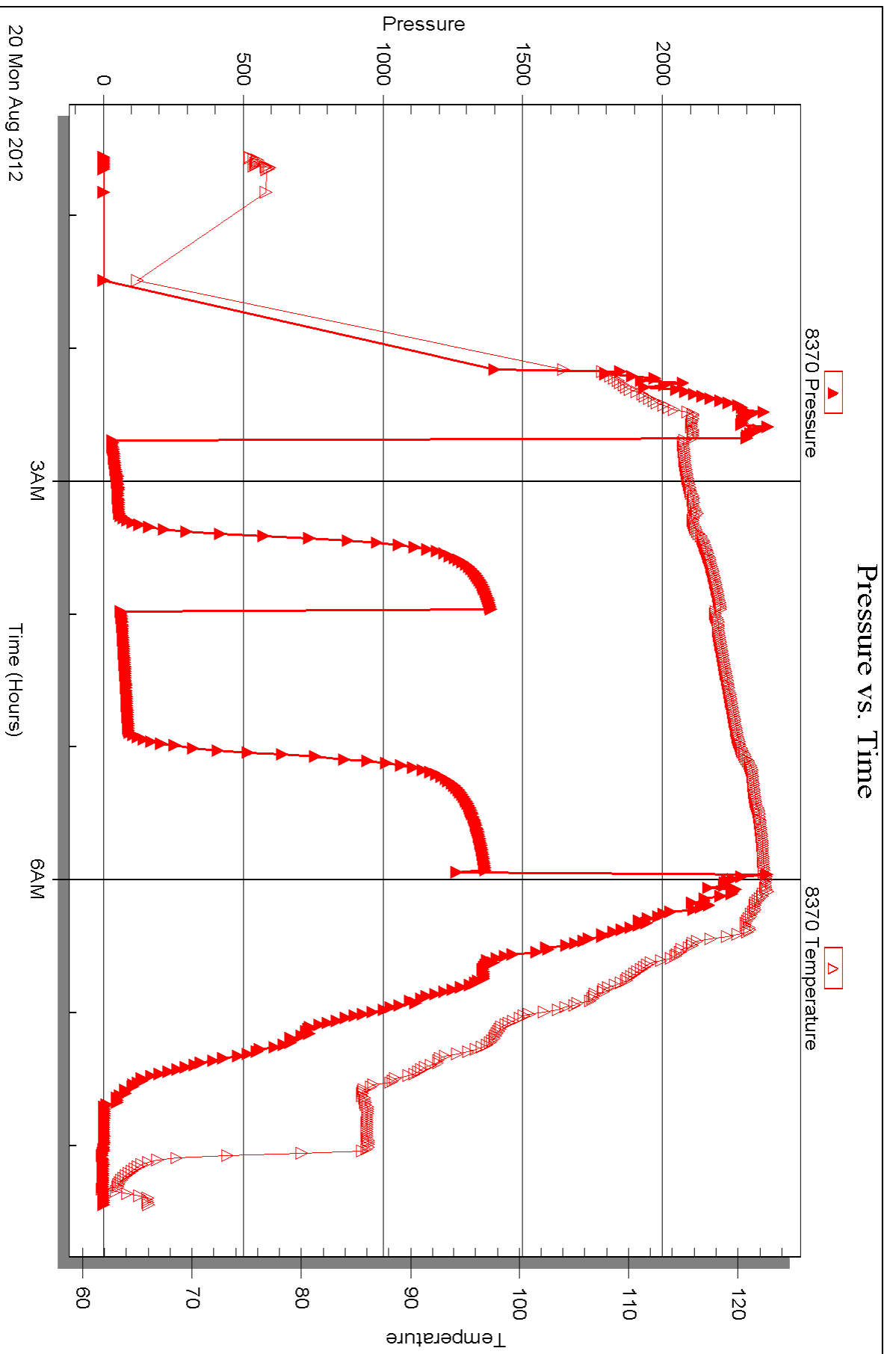
Serial #: 8370

Inside

Ponderosa Witching LLC

27-29s-15w Pratt, KS

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 47598

Printed: 2012.08.24 @ 10:43:00



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47597

4/10

Well Name & No. E & S LEGACY # EPP 3 Test No. 1 Date 8-19-12
 Company PONDEROSA WITCHING LLC Elevation 1963 KB 1954 GL
 Address 110 A SPRING CREEK, WACO TX. 76705
 Co. Rep / Geo. DAVE WILLIAMS Rig STERLING DRUG.
 Location: Sec. 27 Twp. 29^S Rge. 15^W Co. PRATT State Ks

Interval Tested 4485 - 4590' Zone Tested MAQUOKETA
 Anchor Length 105' Drill Pipe Run 4270' Mud Wt. 9.5
 Top Packer Depth 4480' Drill Collars Run 210' Vis 61
 Bottom Packer Depth 4485' Wt. Pipe Run 0 WL 10.4cc
 Total Depth 4590' Chlorides 7,000 ppm System LCM 1^{II}
 Blow Description IF: Weak blow. 1/4". Dead in 22 mins.
FSI: No blow.
FF: No blow. FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>S</u>	<u>Dry Mud</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 S Fluid BHT 118° Gravity N/A API RW N.C. @ — °F Chlorides 7,000 ppm

(A) Initial Hydrostatic 2230 Test 1250 T-On Location 0103
 (B) First Initial Flow 22 Jars 250 T-Started 0155
 (C) First Final Flow 25 Safety Joint 75 T-Open 0402
 (D) Initial Shut-In 52 Circ Sub T-Pulled 0633
 (E) Second Initial Flow 25 Hourly Standby T-Out 0845
 (F) Second Final Flow 26 Mileage (55) 85.25 Comments _____
 (G) Final Shut-In 38 Sampler _____
 (H) Final Hydrostatic 2183 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

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

Sub Total 1660.25
 Sub Total 1660.25
 Total 1660.25
 MP/DST Disc't _____

Approved By Dave Williams Our Representative Cory Piotrowski

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. 47598

4/10

Well Name & No. EES LEGACY EXP II 3 Test No. 2 Date 8-20-12
 Company CONDOROSA WILCHING LLC Elevation 1963 KB 1954 GL
 Address 110 A SPRING CREEK, WACO TX. 76705
 Co. Rep / Geo. DAVE WILLIAMS Rig STERLING DRUG #4
 Location: Sec. 27 Twp. 29S Rge. 15W Co. PRATT State Ks.

Interval Tested 4668 - 4721' Zone Tested SIMPSON SD.
 Anchor Length 53' Drill Pipe Run 4461' Mud Wt. 9.4
 Top Packer Depth 4663' Drill Collars Run 210' Vis 51
 Bottom Packer Depth 4668' Wt. Pipe Run 0 WL 8.8cc
 Total Depth 4721' Chlorides 7,000 ppm System LCM 2#
 Blow Description IF: Water below. 1/2 - 2 1/2". FSI: No blow.

FF: Water below. 1/2 - 3". FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>Gas in pipe</u>				
<u>13</u>	<u>Clean oil</u>				
<u>130</u>	<u>OCM</u>		<u>18</u>		<u>82</u>

Rec Total 145 BHT 1220 Gravity 31.3 API RW N.C. @ - °F Chlorides 7,000 ppm

(A) Initial Hydrostatic 2301 Test 1250 T-On Location 0006
 (B) First Initial Flow 24 Jars 250 T-Started 0038
 (C) First Final Flow 52 Safety Joint 75 T-Open 0242
 (D) Initial Shut-In 1385 Circ Sub _____ T-Pulled 0600
 (E) Second Initial Flow 57 Hourly Standby _____ T-Out 0829
 (F) Second Final Flow 87 Mileage (55) 85.25 Comments _____
 (G) Final Shut-In 1365 Sampler _____
 (H) Final Hydrostatic 2292 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1660.25
 Accessibility _____ MP/DST Disc _____
 Sub Total 1660.25

Approved By [Signature]

Our Representative [Signature]

Triobite 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.