



TRILLOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Am Warrior

PO Box 399
Garden City, Ks
67846
ATTN: Jason Alm

Witthuhn Unit 1-26

26-18s-22w/Ness

Job Ticket: 38960

DST#: 1

Test Start: 2010.07.03 @ 20:45:49

GENERAL INFORMATION:

Formation: **Pt. Scott**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 23:16:44

Time Test Ended: 03:31:13

Test Type: **Conventional Bottom Hole**

Tester: **Brian Fairbank**

Unit No: **41**

Interval: **4105.00 ft (KB) To 4177.00 ft (KB) (TVD)**

Total Depth: **4177.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **2152.00 ft (KB)**

2144.00 ft (CF)

KB to GR/CF: **8.00 ft**

Serial #: **8647**

Inside

Press@RunDepth: **67.76 psig @ 4108.00 ft (KB)**

Start Date: **2010.07.03**

End Date:

2010.07.04

Start Time: **20:45:49**

End Time:

03:31:13

Capacity: **8000.00 psig**

Last Calib.: **2010.07.04**

Time On Btm: **2010.07.03 @ 23:15:14**

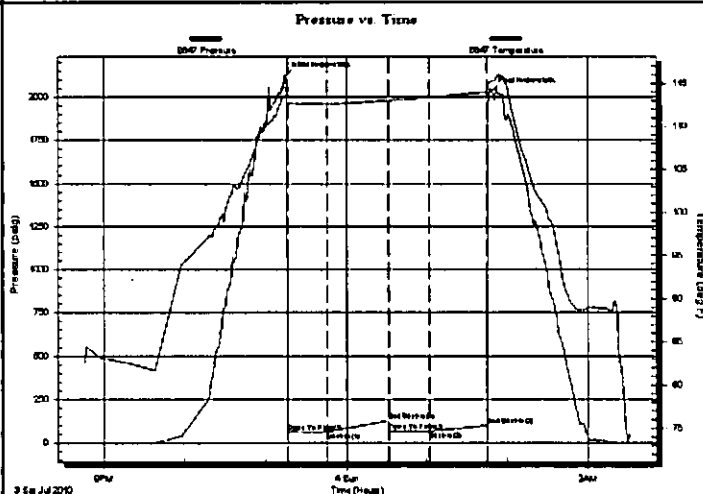
Time Off Btm: **2010.07.04 @ 01:48:13**

TEST COMMENT: **IFP - weak blow throughout 1/4" - 2 1/2"**

ISI - no blow back

FFP - weak blow throughout sur - 1"

FSI - no blow back



PRESSURE SUMMARY

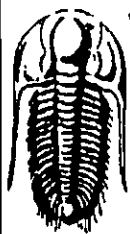
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2121.63	113.57	Initial Hydro-static
2	61.92	112.06	Open To Flow (1)
31	63.99	112.68	Shut-In (1)
76	128.35	113.05	End Shut-In (1)
77	65.48	113.03	Open To Flow (2)
107	67.76	113.42	Shut-In (2)
150	100.70	114.05	End Shut-In (2)
153	2035.04	115.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	VSOCM 2%O, 98%M	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Witthuhn Unit 1-26

PO Box 399
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26-18s-22w/Ness

Job Ticket: 38960

DST#: 1

ATTN: Jason Alm

Test Start: 2010.07.03 @ 20:45:49

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	VSOCM 2%O, 98%M	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

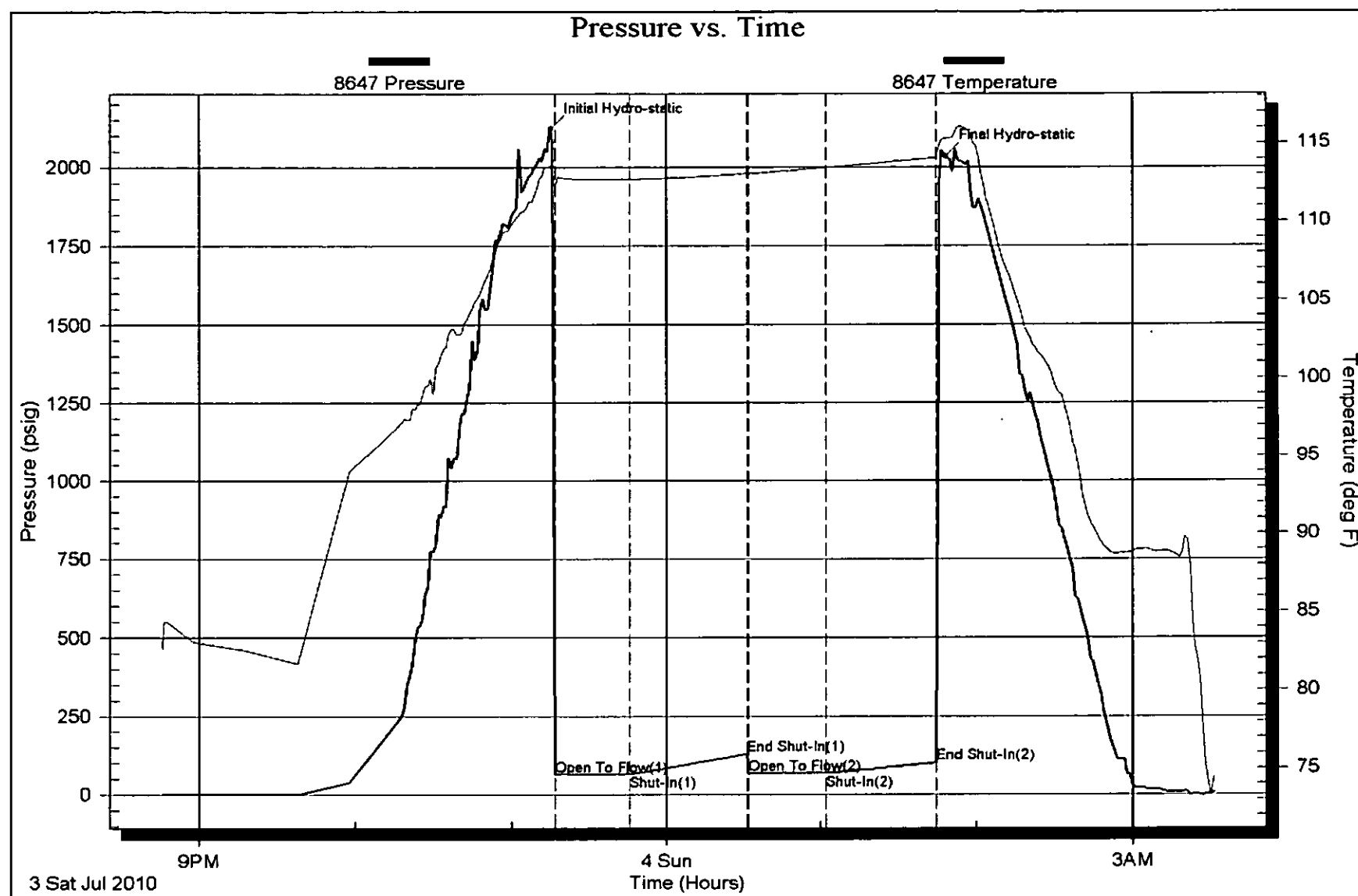
Num Gas Bombs: 0

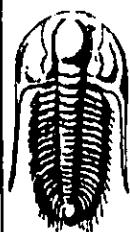
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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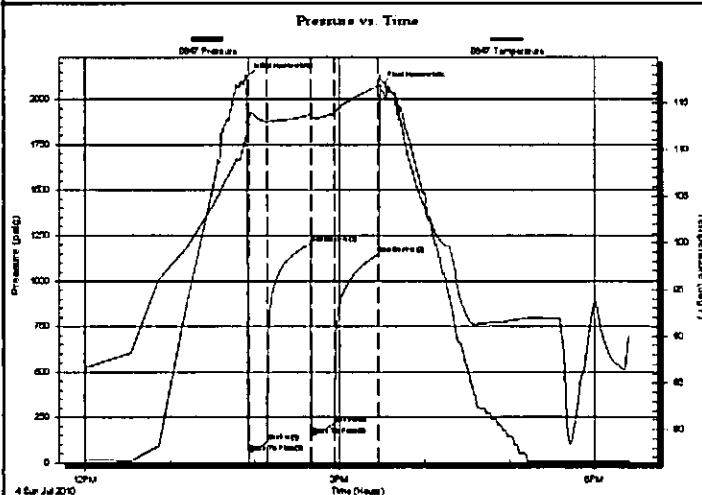
Witthuhn Unit 1-26
26-18s-22w/Ness
Job Ticket: 38961 **DST#: 2**
Test Start: 2010.07.04 @ 12:00:26

GENERAL INFORMATION:

Formation: **Miss**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 13:55:56
Time Test Ended: 18:25:26
Interval: **4225.00 ft (KB) To 4237.00 ft (KB) (TVD)**
Total Depth: **4237.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Paul Simpson**
Unit No: **41**
Reference Elevations: **2152.00 ft (KB)**
2144.00 ft (CF)
KB to GR/CF: **8.00 ft**

Serial #: **8647** Inside
Press@RunDepth: **214.83 psig @ 4227.00 ft (KB)**
Start Date: **2010.07.04** End Date: **2010.07.04** Capacity: **8000.00 psig**
Start Time: **12:00:31** End Time: **18:25:25** Last Calib.: **2010.07.04**
Time On Btm: **2010.07.04 @ 13:54:56**
Time Off Btm: **2010.07.04 @ 15:28:56**

TEST COMMENT: IF- 1" blow building to bottom of bucket in 3 minutes
IS- weak surface blow built to 6"
FF- strong -bottom of bucket in 1 minute
FSI- weak surface built to 3"



PRESSURE SUMMARY

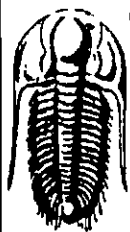
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2124.49	111.74	Initial Hydro-static
1	58.29	113.13	Open To Flow (1)
14	116.04	112.94	Shut-In(1)
45	1203.65	113.73	End Shut-In(1)
46	152.80	113.43	Open To Flow (2)
62	214.83	113.86	Shut-In(2)
93	1148.24	116.78	End Shut-In(2)
94	2072.55	117.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
540.00	gassy oil 20% gas 80% oil	6.56
30.00	muddy oil 85% oil 15% mud	0.38
0.00	330' gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mc/d)
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Job Ticket: 38961

DST#: 2

ATTN: Jason Alm

Test Start: 2010.07.04 @ 12:00:26

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
540.00	gassy oil 20% gas 80% oil	6.561
30.00	muddy oil 85% oil 15% mud	0.378
0.00	330' gas in pipe	0.000

Total Length: 570.00 ft

Total Volume: 6.939 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

