

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operating, Inc**

PO Box 86
Plainville, KS 67663 + 0086

ATTN: Marc Downing

Solze #32-1

32-17s-26w Ness,KS

Start Date: 2011.10.06 @ 19:25:00

End Date: 2011.10.07 @ 03:31:00

Job Ticket #: 44653 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

RECEIVED

NOV 23 2011

KCC WICHITA

CONFIDENTIAL

NOV 23 2011

Printed: 2011.10.17 @ 13:53:47

KCC

H & C Oil Operating, Inc 32-17s-26w Ness,KS Solze #32-1 DST # 1 Cher Sd / Miss 2011.10.06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H & C Oil Operating, Inc

32-17s-26w Ness, KS

PO Box 86
Rainville, KS 67663 + 0086

Solze #32-1

Job Ticket: 44653

DST#: 1

ATTN: Marc Downing

Test Start: 2011.10.06 @ 19:25:00

GENERAL INFORMATION:

Formation: **Cher Sd / Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:48:00

Time Test Ended: 03:31:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 42

Interval: **4437.00 ft (KB) To 4502.00 ft (KB) (TVD)**

Total Depth: 4502.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2568.00 ft (KB)

2560.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **8700** Outside

Press@RunDepth: 40.89 psig @ 4474.00 ft (KB)

Start Date: 2011.10.06

End Date:

2011.10.07

Start Time: 19:25:05

End Time:

03:30:59

Capacity: 8000.00 psig

Last Calib.: 2011.10.07

Time On Btm: 2011.10.06 @ 22:47:30

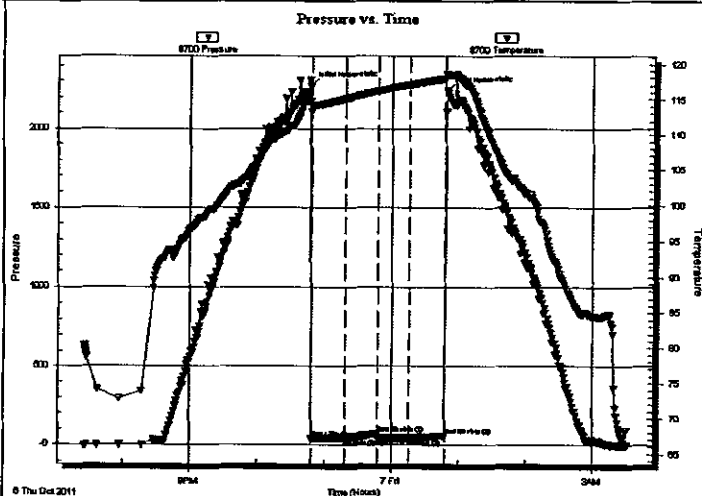
Time Off Btm: 2011.10.07 @ 00:49:00

TEST COMMENT: 30 - IF- 1/4" blow, died in 28 Min

30 - IS- No blow back

30 - FF- No blow back

30 - FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2269.20	114.77	Initial Hydro-static
1	35.97	113.33	Open To Flow (1)
31	40.10	115.11	Shut-In(1)
60	68.92	116.20	End Shut-In(1)
60	39.83	116.20	Open To Flow (2)
89	40.89	117.11	Shut-In(2)
120	58.22	117.97	End Shut-In(2)
122	2241.53	118.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M, Oil scum, 100%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operating, Inc
PO Box 86
Plainville, KS 67663 + 0086

ATTN: Marc Downing

32-17s-26w Ness, KS
Solze #32-1
Job Ticket: 44653 DST#: 1
Test Start: 2011.10.06 @ 19:25:00

Tool Information

Drill Pipe:	Length: 4394.00 ft	Diameter: 3.80 inches	Volume: 61.64 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb		
			Total Volume:	61.79 bbl	Tool Chased	0.00 ft	
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	52000.00 lb	Final	52000.00 lb
Depth to Top Packer:	4437.00 ft						
Depth to Bottom Packer:	ft						
Interval between Packers:	65.00 ft						
Tool Length:	93.00 ft						
Number of Packers:	2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4410.00		
Shut In Tool	5.00			4415.00		
Hydraulic tool	5.00			4420.00		
Jars	5.00			4425.00		
Safety Joint	2.00			4427.00		
Packer	5.00			4432.00	28.00	Bottom Of Top Packer
Packer	5.00			4437.00		
Stubb	1.00			4438.00		
Perforations	3.00			4441.00		
Change Over Sub	1.00			4442.00		
Drill Pipe	31.00			4473.00		
Change Over Sub	1.00			4474.00		
Recorder	0.00	6625	Inside	4474.00		
Recorder	0.00	8700	Outside	4474.00		
Perforations	25.00			4499.00		
Bullnose	3.00			4502.00	65.00	Bottom Packers & Anchor
Total Tool Length:		93.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operating, Inc

32-17s-26w Ness,KS

PO Box 86
Plainville, KS 67663 + 0086

Solze #32-1

Job Ticket: 44653

DST#: 1

ATTN: Marc Downing

Test Start: 2011.10.06 @ 19:25:00

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M, Oil scum, 100%M	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

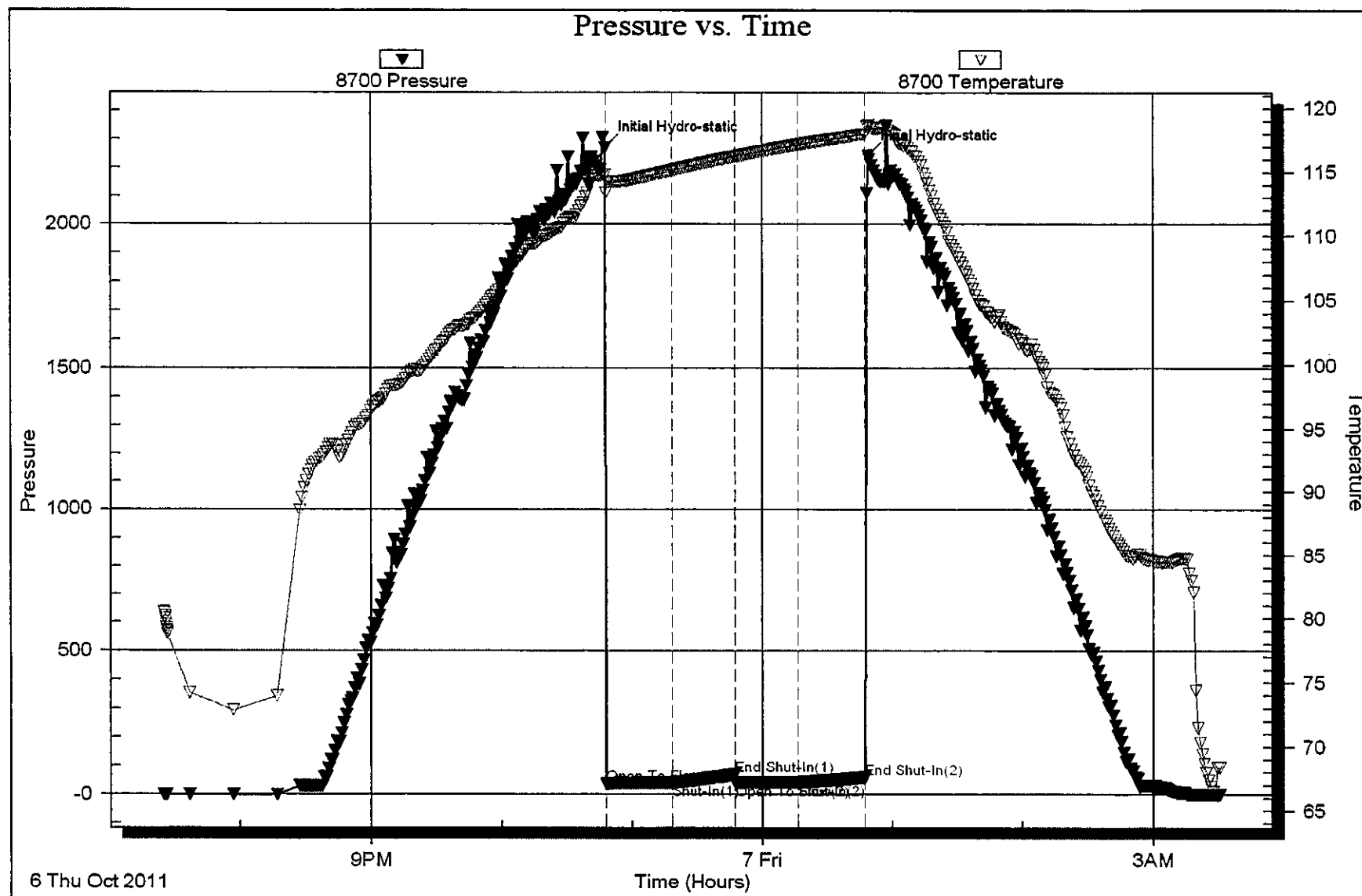
Recovery Comments:

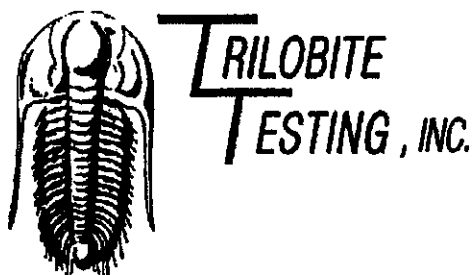
Serial #: 8700

Outside H & C Oil Operating, Inc

Solze #32-1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operating, Inc**

PO Box 86
Plainville, KS 67663 + 0086

ATTN: Marc Downing

Solze #32-1

32-17s-26w Ness,KS

Start Date: 2011.10.07 @ 10:13:00

End Date: 2011.10.07 @ 17:28:30

Job Ticket #: 44654 DST #: 2

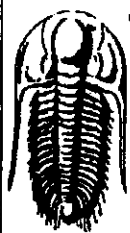
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.10.17 @ 13:54:26

H & C Oil Operating, Inc 32-17s-26w Ness,KS Solze #32-1 DST # 2 Miss 2011.10.07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

H & C Oil Operating, Inc
PO Box 86
Plainville, KS 67663 + 0086
ATTN: Marc Downing

32-17s-26w Ness, KS

Solze #32-1

Job Ticket: 44654

DST#: 2

Test Start: 2011.10.07 @ 10:13:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:21:30

Time Test Ended: 17:28:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 42

Interval: **4437.00 ft (KB) To 4514.00 ft (KB) (TVD)**

Total Depth: 4514.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2568.00 ft (KB)

2560.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8700

Outside

Press@RunDepth: 87.90 psig @ 4505.00 ft (KB)

Start Date: 2011.10.07

End Date:

2011.10.07

Start Time: 10:13:05

End Time:

17:28:29

Capacity: 8000.00 psig

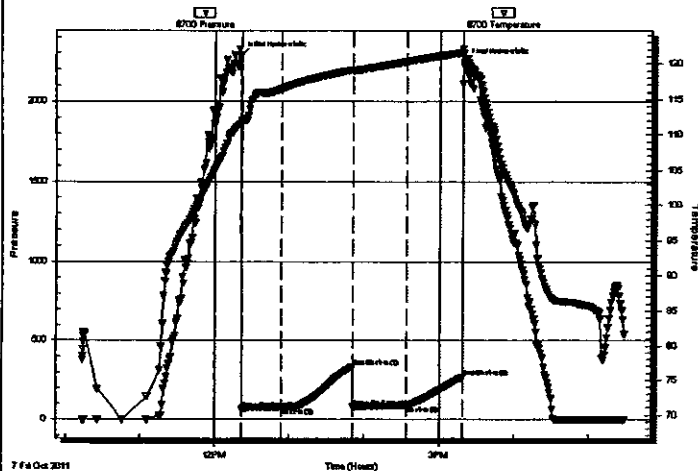
Last Calib.: 2011.10.07

Time On Btm: 2011.10.07 @ 12:20:30

Time Off Btm: 2011.10.07 @ 15:19:00

TEST COMMENT: 45 - IF- 7" blow
45 - IS- No blow back
45 - FF- 4 1/4" blow
45 - FS- No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2285.06	111.98	Initial Hydro-static
1	59.27	111.63	Open To Flow (1)
34	76.94	116.47	Shut-In(1)
90	332.36	119.10	End Shut-In(1)
91	77.00	118.95	Open To Flow (2)
134	87.90	120.31	Shut-In(2)
178	266.91	121.56	End Shut-In(2)
179	2241.98	121.42	Final Hydro-static

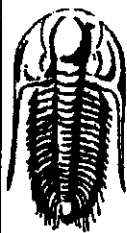
Recovery

Length (ft)	Description	Volume (bbl)
62.00	GHOCWM 10%G, 30%W, 30%M, 30%O	0.59
20.00	GHOCWM 10%G 10%W 50%M 30%O	0.28
10.00	Free Oil 100%O	0.14
0.00	124' 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

H & C Oil Operating, Inc
PO Box 86
Plainville, KS 67663 + 0086

ATTN: Marc Downing

32-17s-26w Ness,KS

Solze #32-1
Job Ticket: 44654 **DST#: 2**
Test Start: 2011.10.07 @ 10:13:00

Tool Information

Drill Pipe:	Length: 4394.00 ft	Diameter: 3.80 inches	Volume: 61.64 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	58000.00 lb
		Total Volume:	61.79 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	4437.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	77.00 ft				
Tool Length:	105.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4410.00	
Shut In Tool	5.00			4415.00	
Hydraulic tool	5.00			4420.00	
Jars	5.00			4425.00	
Safety Joint	2.00			4427.00	
Packer	5.00			4432.00	28.00 Bottom Of Top Packer
Packer	5.00			4437.00	
Stubb	1.00			4438.00	
Perforations	3.00			4441.00	
Change Over Sub	1.00			4442.00	
Drill Pipe	62.00			4504.00	
Change Over Sub	1.00			4505.00	
Recorder	0.00	6625	Inside	4505.00	
Recorder	0.00	8700	Outside	4505.00	
Perforations	6.00			4511.00	
Bullnose	3.00			4514.00	77.00 Bottom Packers & Anchor
Total Tool Length:		105.00			



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operating, Inc
PO Box 86
Plainville, KS 67663 + 0086
ATTN: Marc Downing

32-17s-26w Ness, KS
Solze #32-1
Job Ticket: 44654 **DST#: 2**
Test Start: 2011.10.07 @ 10:13:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 51.00 sec/qt
Water Loss: 8.75 in³
Resistivity: ohm.m
Salinity: 2000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 39 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GHOCVM, 10%G, 30%W, 30%M, 30%O	0.587
20.00	GHOCVM 10%G 10%W 50%M 30%O	0.281
10.00	Free Oil 100%O	0.140
0.00	124' GIP	0.000

Total Length: 92.00 ft Total Volume: 1.008 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

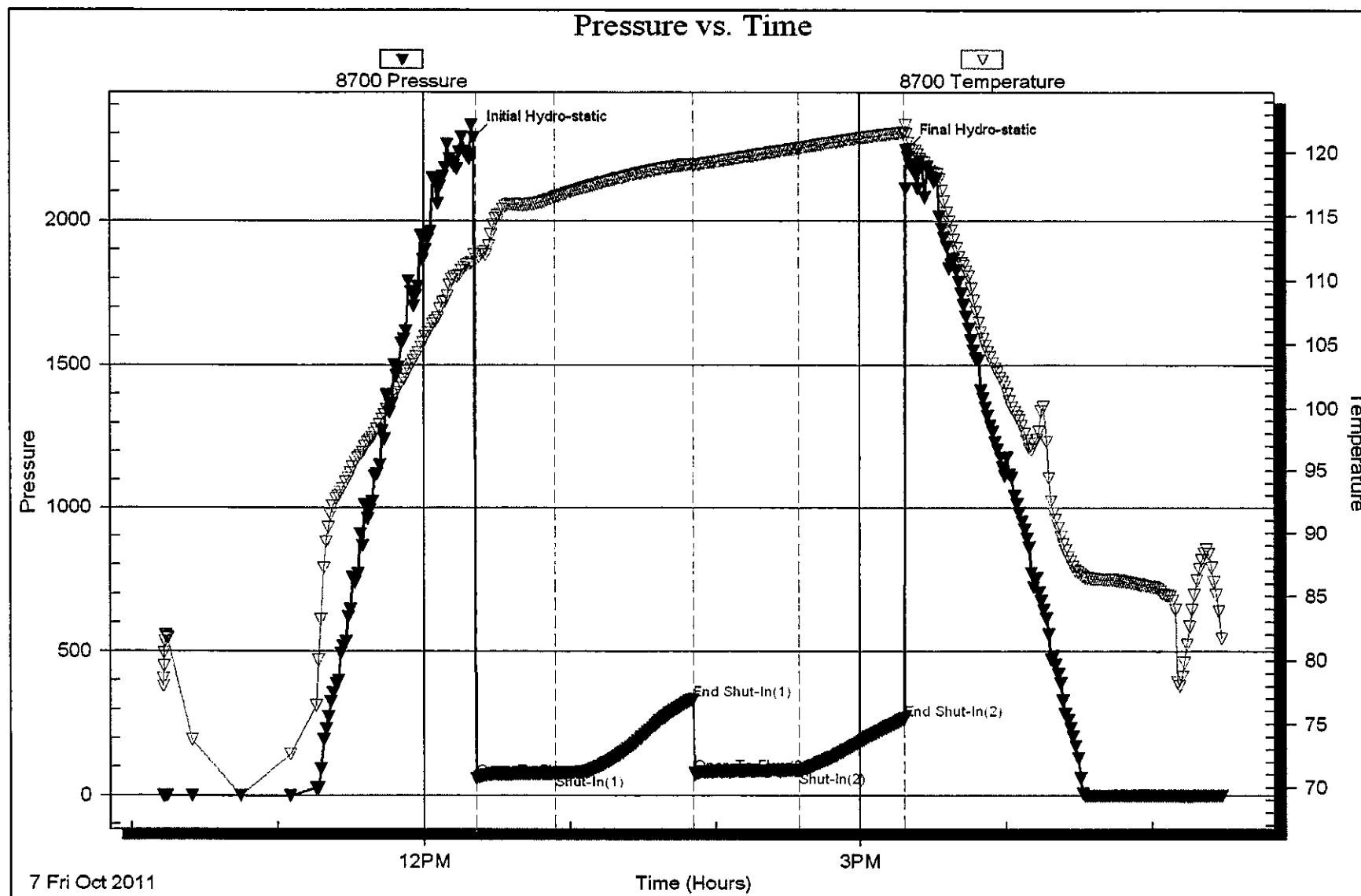
Recovery Comments: Gravity: 39 @ 60 Degrees = 39

Serial #: 8700

Outside H & C Oil Operating, Inc

Solze #32-1

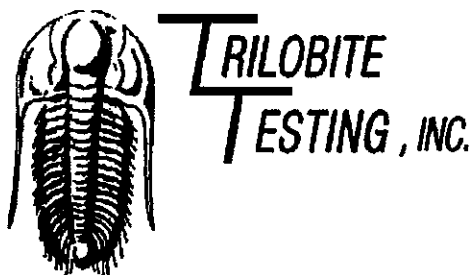
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 44654

Printed: 2011.10.17 @ 13:54:29



DRILL STEM TEST REPORT

Prepared For: **H & C Oil Operating, Inc**

PO Box 86
Plainville, KS 67663 + 0086

ATTN: Marc Downing

Solze #32-1

32-17s-26w Ness,KS

Start Date: 2011.10.08 @ 09:30:00

End Date: 2011.10.08 @ 17:22:00

Job Ticket #: 44655 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.10.17 @ 13:54:54

H & C Oil Operating, Inc

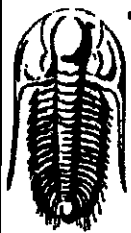
32-17s-26w Ness, KS

Solze #32-1

DST # 3

Ft. Scott

2011.10.08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

H & C Oil Operating, Inc
PO Box 86
Plainville, KS 67663 + 0086
ATTN: Marc Downing

32-17s-26w Ness, KS

Solze #32-1

Job Ticket: 44655

DST#: 3

Test Start: 2011.10.08 @ 09:30:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:01:00

Time Test Ended: 17:22:00

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 42

Interval: **4405.00 ft (KB) To 4427.00 ft (KB) (TVD)**

Total Depth: 4502.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2568.00 ft (KB)

2560.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8374

Outside

Press@RunDepth: 51.24 psig @ 4406.00 ft (KB)

Start Date: 2011.10.08

End Date:

2011.10.08

Start Time: 09:30:05

End Time:

17:21:59

Capacity: 8000.00 psig

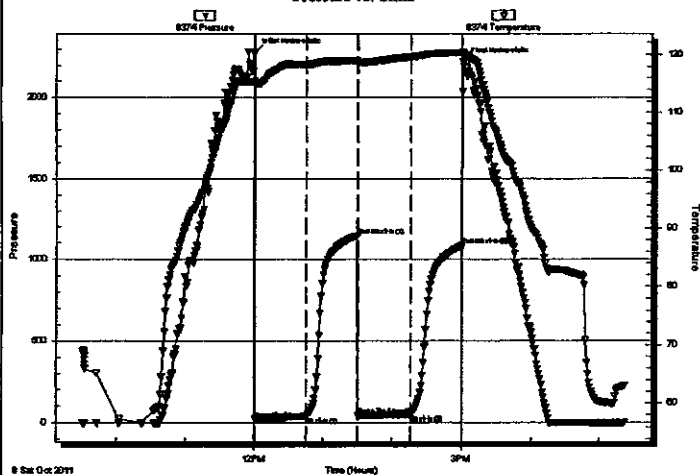
Last Calib.: 2011.10.08

Time On Btm: 2011.10.08 @ 12:00:30

Time Off Btm: 2011.10.08 @ 15:01:00

TEST COMMENT: 45 - IF- 2 1/4" Blow
45 - IS- No blow back
45 - FF- 4" blow
45 - FS- Surface blow, died in 25 Min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2278.69	115.40	Initial Hydro-static
1	21.35	114.89	Open To Flow (1)
45	39.13	118.27	Shut-In(1)
90	1146.07	118.91	End Shut-In(1)
90	44.33	118.46	Open To Flow (2)
135	51.24	119.57	Shut-In(2)
180	1082.46	120.22	End Shut-In(2)
181	2218.99	120.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MMV, Oil scum, 40%M, 60%W	0.59
26.00	VSOCMM, 5%O, 5%W, 90%M	0.36
5.00	Free Oil, 100%O	0.07

* Recovery from multiple tests

Gas Rates

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



H & C Oil Operating, Inc
PO Box 86
Plainville, KS 67663 + 0086
ATTN: Marc Downing

Job Ticket: 44655 DST#: 3
Test Start: 2011.10.08 @ 09:30:00

Formation: **Pt. Scott**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **12:01:00**
 Time Test Ended: **17:22:00**

Test Type: Conventional Straddle (Reset)
Tester: Cody Bloedorn
Unit No: 42

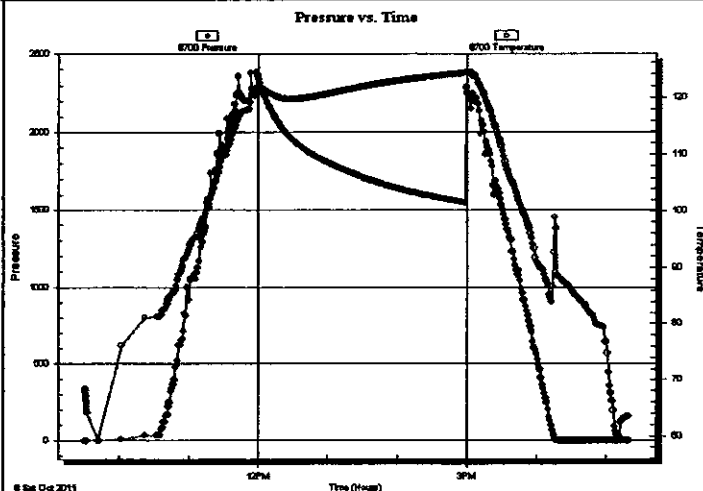
Interval: 4405.00 ft (KB) To 4427.00 ft (KB) (TVD)
Total Depth: 4502.00 ft (KB) (TVD)
Hole Diameter: 7.88 inchesHole Condition: Good

Reference Elevations: 2568.00 ft (KB)
2560.00 ft (CF)
KB to GR/CF: 8.00 ft

Start Date:	2011.10.08	End Date:	2011.10.08
Start Time:	09:30:05	End Time:	17:19:59

Capacity:	8000.00	psig
Last Calib.:	2011.10.08	
Time On Btm		
Time Off Btm		

TEST COMMENT: 45 - IF- 2 1/4" Blow
45 - IS- No blow back
45 - FF- 4" blow
45 - FS- Surface blow , died in 25 Min.



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

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

Length (ft)	Description	Volume (bbl)
62.00	MV, Oil scum, 40%M, 60%W	0.59
26.00	VSOCWM, 5%O, 5%W, 90%M	0.36
5.00	Free Oil, 100%O	0.07

* Recovery from multiple tests

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

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

H & C Oil Operating, Inc

32-17s-26w Ness, KS

PO Box 86
Plainville, KS 67663 + 0086

Solze #32-1

Job Ticket: 44655

DST#: 3

ATTN: Marc Downing

Test Start: 2011.10.08 @ 09:30:00

Tool Information

Drill Pipe:	Length: 4365.00 ft	Diameter: 3.80 inches	Volume: 61.23 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			Total Volume: 61.38 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4405.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	4427.00 ft			
Interval between Packers:	22.00 ft			
Tool Length:	205.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4378.00	
Shut In Tool	5.00			4383.00	
Hydraulic tool	5.00			4388.00	
Jars	5.00			4393.00	
Safety Joint	2.00			4395.00	
Packer	5.00			4400.00	28.00 Bottom Of Top Packer
Packer	5.00			4405.00	
Stubb	1.00			4406.00	
Recorder	0.00	8374	Outside	4406.00	
Recorder	0.00	6625	Inside	4406.00	
Perforations	20.00			4426.00	
Blank Off Sub	1.00			4427.00	22.00 Tool Interval
Packer	5.00			4432.00	
Change Over Sub	1.00			4433.00	
Drill Pipe	124.00			4557.00	
Recorder	0.00	8700	Below	4557.00	
Change Over Sub	1.00			4558.00	
Perforations	21.00			4579.00	
Bullnose	3.00			4582.00	155.00 Bottom Packers & Anchor

Total Tool Length: 205.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

H & C Oil Operating, Inc

32-17s-26w Ness, KS

PO Box 86
Plainville, KS 67663 + 0086

Solze #32-1

Job Ticket: 44655

DST#: 3

ATTN: Marc Downing

Test Start: 2011.10.08 @ 09:30:00

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MW, Oil scum, 40%M, 60%W	0.587
26.00	VSOC/M, 5%O, 5%W, 90%M	0.365
5.00	Free Oil, 100%O	0.070

Total Length: 93.00 ft

Total Volume: 1.022 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

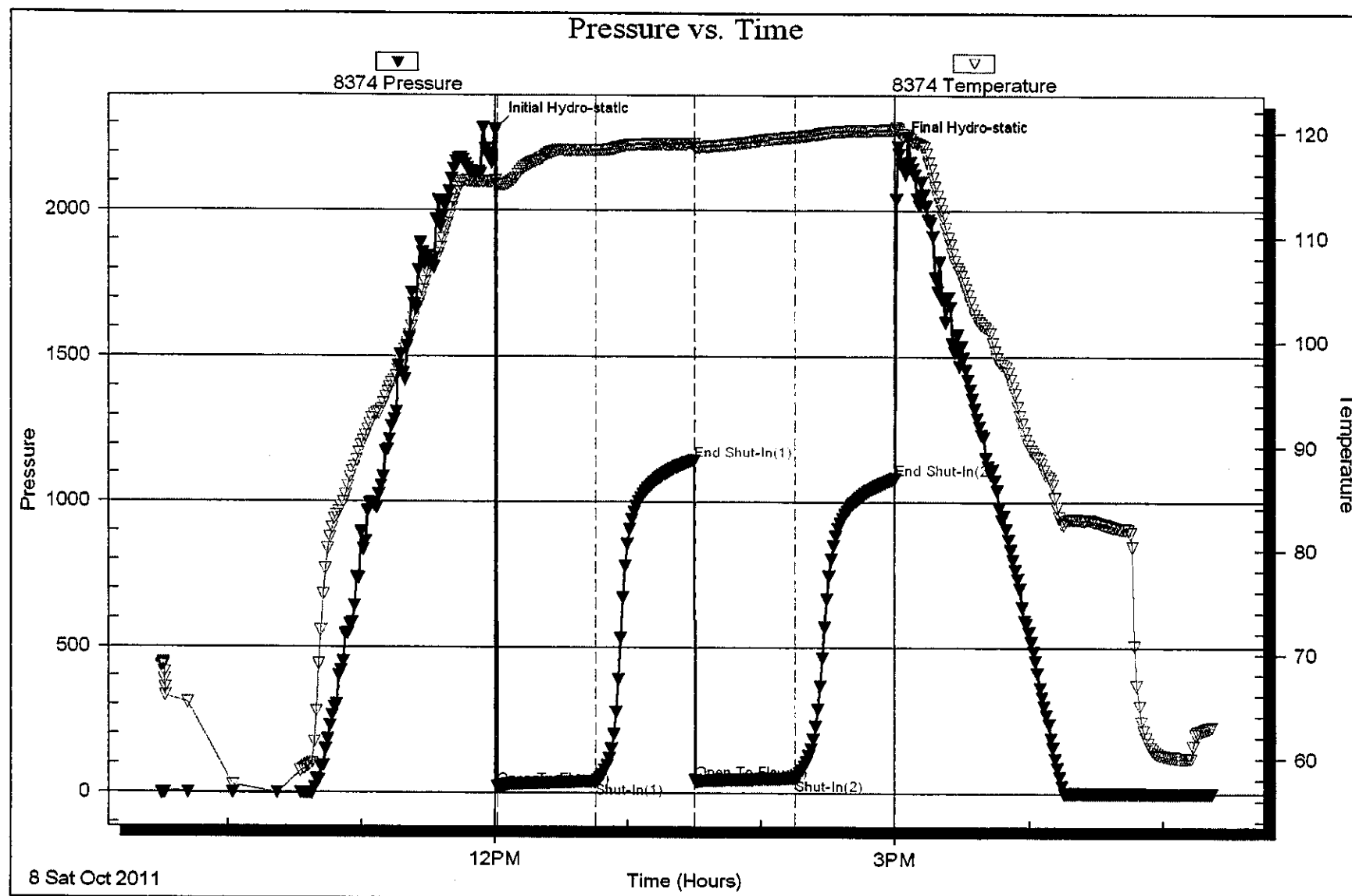
Recovery Comments: Water Salinity: .13 @ 60 Degrees = 70,000

Serial #: 8374

Outside H & C Oil Operating, Inc

Solze #32-1

DST Test Number: 3

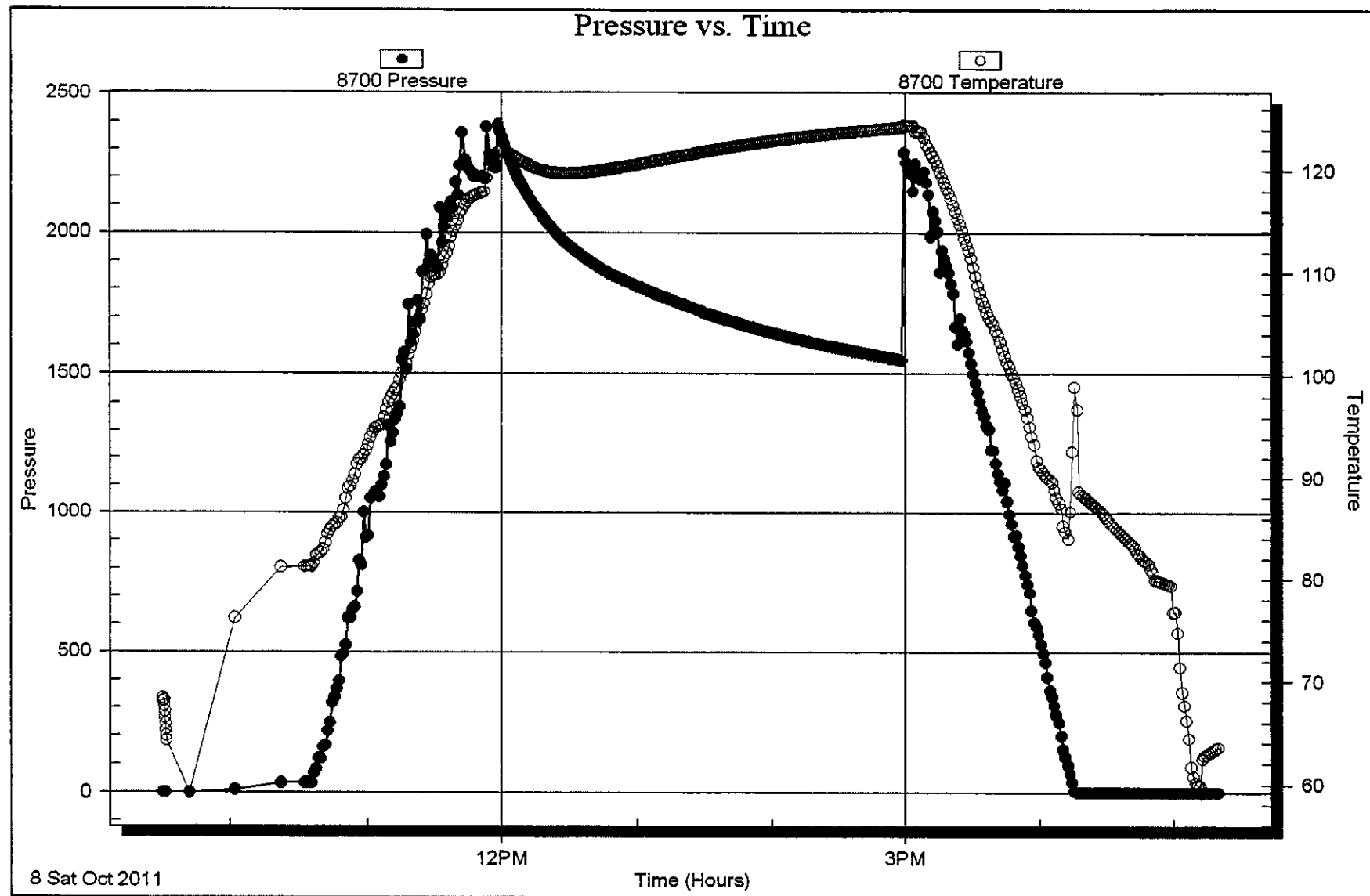


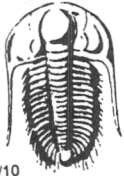
Serial #: 8700

Below (Strat) Oil Operating, Inc

Size #32-1

DST Test Number: 3





**TRILOBITE
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
OCT 10 2011

Test Ticket

NO. 44653 16438

Well Name & No. Solze 32-1 Test No. 1 Date 10-6-11
Company H & C Oil Operating, Inc. Elevation 2560 KB 2568 GL
Address P.O. Box 86, Plainville KS, 67663-0086
Co. Rep / Geo. Mark Downing Rig Discovery #3
Location: Sec. 32 Twp. 17s Rge. 26w Co. Ness State KS

Interval Tested 4437-4502 Zone Tested Mississippi/cher SD
Anchor Length 65' Drill Pipe Run 4394 Mud Wt. 9.4
Top Packer Depth 4432 Drill Collars Run 31 Vis 51
Bottom Packer Depth 4437 Wt. Pipe Run — WL 8.8
Total Depth 4502 Chlorides 2000 ppm System LCM
Blow Description IF - 1/4" blow, died in 28 Min.
ISI - No blow back.
FF - No blow back
FSI - No blow back

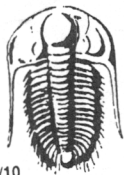
Rec	Feet of	%gas	%oil	%water	%mud
5	M, oil scum			100	
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud

Rec Total 5' BHT 118° Gravity 1225 API RW 250 @ 175 °F Chlorides — pp
(A) Initial Hydrostatic 2269 ☒ Test 1225
(B) First Initial Flow 35 ☒ Jars 250
(C) First Final Flow 40 ☒ Safety Joint 175
(D) Initial Shut-In 68 ☐ Circ Sub —
(E) Second Initial Flow 39 ☐ Hourly Standby 34 hr 175
(F) Second Final Flow 40 ☒ Mileage 80 x 2 160 RT
(G) Final Shut-In 58 ☐ Sampler 224
(H) Final Hydrostatic 2241 ☐ Straddle —
☐ Shale Packer —
☐ Extra Packer —
☐ Extra Recorder —
☐ Day Standby —
☐ Accessibility —
Sub Total 1849

T-On Location 4:49 pm
T-Started 7:25 pm
T-Open 10:48 pm
T-Pulled 12:48 pm
T-Out 3:32 am
Comments started down hole @ 8:30 pm - (windy)

Initial Open 30 ☐ Ruined Shale Packer —
Initial Shut-In 30 ☐ Ruined Packer —
Final Flow 30 ☐ Extra Copies —
Final Shut-In 30 Sub Total 0
Total 1849
MP/DST Disc't —

Our Representative Cody Bloodorn



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
OCT 10 2011

Test Ticket

NO. 44654

Well Name & No. Solze 32-1 Test No. 2 Date 10-7-11
Company H & C Oil Operating, INC. Elevation 2560 KB 2568 GL
Address Po Box 86, Plainville KS, 67663 & 0086
Co. Rep / Geo. Marc Downing Rig Discovery #3
Location: Sec. 32 Twp. 17s Rge. 26w Co. Ness State KS

Interval Tested 4437-4514 Zone Tested Miss.
Anchor Length 77' Drill Pipe Run 4394 Mud Wt. 9.4
Top Packer Depth 4432 Drill Collars Run 31 Vis 51
Bottom Packer Depth 4437 Wt. Pipe Run — WL 8.8
Total Depth 4514 Chlorides 2,000 ppm System LCM —
Blow Description IF- 7" blow
ISI- No blow back
FF- 4 1/4" blow
FSI- No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>6 HOCWM</u>	<u>10</u>	<u>30</u>	<u>30</u>	<u>30</u>
<u>20</u>	<u>6 HOCWM</u>	<u>10</u>	<u>30</u>	<u>10</u>	<u>50</u>
<u>10</u>	<u>Free oil</u>				
<u>0</u>	<u>124' of G.I.P.</u>				

Rec Total 92' BHT 121° Gravity 39 API RW — @ — ° F Chlorides — ppm
(A) Initial Hydrostatic 2285 ☒ Test 1225'
(B) First Initial Flow 59 ☒ Jars 250'
(C) First Final Flow 76 ☒ Safety Joint 75'
(D) Initial Shut-In 332 ☐ Circ Sub —
(E) Second Initial Flow 77 ☐ Hourly Standby —
(F) Second Final Flow 87 ☒ Mileage 80x2160RT
(G) Final Shut-In 266 ☐ Sampler —
(H) Final Hydrostatic 2241 ☐ Straddle —
☐ Shale Packer —
☐ Extra Packer —
☐ Extra Recorder —
☐ Day Standby —
☐ Accessibility —
Sub Total 1774'

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

T-On Location 9:17 am
T-Started 10:13 am
T-Open 12:21 pm
T-Pulled 3:21 pm
T-Out 5:30 pm

Comments 39 @ 60°
☐ Ruined Shale Packer
☐ Ruined Packer
☐ Extra Copies
Sub Total 0
Total 1774'
MP/DST Disc't —

Our Representative

Cody Bloodorn

Approved By

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 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
OCT 10 2011

Test Ticket

NO. 44655

Well Name & No. Solze 32-1 Test No. 3 Date 10-8-11
Company H & C Oil Operating, INC Elevation 2560 KB 2568 GL
Address PO Box 86, Plainville KS, 67663 & 0086
Co. Rep / Geo. Marc Downing Rig Discovery #3
Location: Sec. 32 Twp. 17S Rge. 26W Co. Ness State KS

Interval Tested 4405 - 4427 Zone Tested Ft Scott
Anchor Length 22' 149' tail Drill Pipe Run 4365 Mud Wt. 9.4
Top Packer Depth 4400 Drill Collars Run 31 Vis 51
Bottom Packer Depth 4405 Wt. Pipe Run — WL 8.8
Total Depth 4427 Chlorides 3,000 ppm System LCM —
Blow Description IF - 2 1/4" blow
ISI - No blow back
FF - 4" blow
FSI - Surface blow, died in 25 Min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>MW, oil scum</u>			<u>60</u>	<u>40</u>
<u>26</u>	<u>VSOCWM</u>		<u>5</u>	<u>5</u>	<u>90</u>
<u>5</u>	<u>Free oil</u>				

Rec Total 93' BHT 120° Gravity — API RW .13 @ 62 °F Chlorides 70,000 ppm

(A) Initial Hydrostatic <u>2278</u>	☒ Test <u>1225'</u>	T-On Location <u>8:30am</u>
(B) First Initial Flow <u>21</u>	☒ Jars <u>250'</u>	T-Started <u>9:30am</u>
(C) First Final Flow <u>39</u>	☒ Safety Joint <u>75'</u>	T-Open <u>12:00pm</u>
(D) Initial Shut-In <u>1146</u>	☐ Circ Sub	T-Pulled <u>3:00pm</u>
(E) Second Initial Flow <u>44</u>	☐ Hourly Standby	T-Out <u>5:22pm</u>
(F) Second Final Flow <u>51</u>	☒ Mileage <u>80 x 2 160ft 224'</u>	Comments
(G) Final Shut-In <u>1082</u>	☐ Sampler	
(H) Final Hydrostatic <u>2218</u>	☒ Straddle <u>600'</u>	
	☐ Shale Packer	☐ Ruined Shale Packer
	☐ Extra Packer	☐ Ruined Packer
	☐ Extra Recorder	☐ Extra Copies
	☐ Day Standby	Sub Total
	☐ Accessibility	Total
	Sub Total <u>2374'</u>	MP/DST Disc't

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

Approved By

Our Representative

Cody Bloodorn

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.