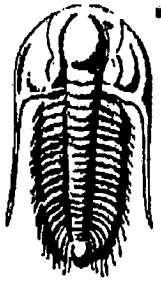


TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

KCC
AUG 1 9 2010
CONFIDENTIAL

Prepared For: **Murfin Drilling Co., Inc.**

250 N Water STE
Wichita, KS 67202

ATTN: Brad Rine

32-27-25 Ford KS

Hartman #1-32

Start Date: 2010.06.03 @ 02:43:05
End Date: 2010.06.03 @ 10:44:59
Job Ticket #: 38260 DST #: 1

RECEIVED
AUG 2 0 2010
KCC WICHITA

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Murfin Drilling Co., Inc.

250 N Water STE
Wichita, KS 67202

ATTN: Brad Rine

Hartman #1-32

32-27-25 Ford KS

Job Ticket: 38260 **DST#: 1**

Test Start: 2010.06.03 @ 02:43:05

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:03:00
Time Test Ended: 10:44:59

Test Type: Conventional Bottom Hole
Tester: Mike Roberts
Unit No: 35

Interval: 5157.00 ft (KB) To 5243.00 ft (KB) (TVD)
Total Depth: 5243.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

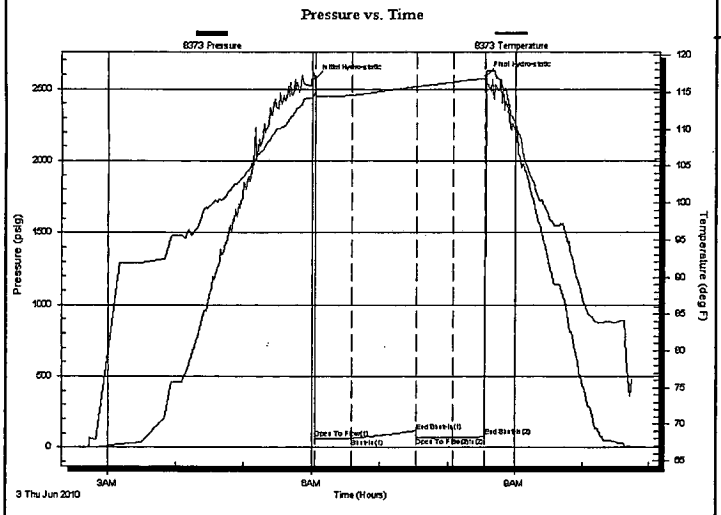
Reference Elevations: 2655.00 ft (KB)
2645.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8373 **Inside**

Press@RunDepth: 67.04 psig @ 5160.00 ft (KB)
Start Date: 2010.06.03 End Date: 2010.06.03
Start Time: 02:43:05 End Time: 10:44:59

Capacity: 8000.00 psig
Last Calib.: 2010.06.03
Time On Btm: 2010.06.03 @ 06:02:45
Time Off Btm: 2010.06.03 @ 08:34:14

TEST COMMENT: IF:Built to 1/8" blow died to w eak surface blow in 15 min
IS:No return blow
FF:No blow
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2569.01	114.88	Initial Hydro-static
1	62.78	114.19	Open To Flow (1)
33	64.79	114.59	Shut-In(1)
90	111.75	115.77	End Shut-In(1)
90	70.06	115.75	Open To Flow (2)
122	67.04	116.37	Shut-In(2)
151	74.34	116.91	End Shut-In(2)
152	2589.53	117.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% m	0.05

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

250 N Water STE
Wichita, KS 67202

ATTN: Brad Rine

Hartman #1-32

32-27-25 Ford KS

Job Ticket: 38260 **DST#: 1**

Test Start: 2010.06.03 @ 02:43:05

Tool Information

Drill Pipe:	Length:	4976.00 ft	Diameter:	3.80 inches	Volume:	69.80 bbl	Tool Weight:	1500.00 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:	179.00 ft	Diameter:	2.25 inches	Volume:	0.88 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	70.68 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		26.00 ft					String Weight: Initial	63000.00 lb
Depth to Top Packer:		5157.00 ft					Final	63000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		86.00 ft						
Tool Length:		114.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			5130.00		
Shut In Tool	5.00			5135.00		
Hydraulic tool	5.00			5140.00		
Jars	5.00			5145.00		
Safety Joint	3.00			5148.00		
Packer	5.00			5153.00	28.00	Bottom Of Top Packer
Packer	4.00			5157.00		
Stubb	1.00			5158.00		
Perforations	2.00			5160.00		
Recorder	0.00	8373	Inside	5160.00		
Recorder	0.00	8289	Outside	5160.00		
Change Over Sub	1.00			5161.00		
Drill Pipe	62.00			5223.00		
Change Over Sub	1.00			5224.00		
Perforations	14.00			5238.00		
Bullnose	5.00			5243.00	86.00	Bottom Packers & Anchor
Total Tool Length:	**114.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

250 N Water STE
Wichita, KS 67202

ATTN: Brad Rine

Hartman #1-32

32-27-25 Ford KS

Job Ticket: 38260 **DST#: 1**

Test Start: 2010.06.03 @ 02:43:05

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.37 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm m	Gas Cushion Pressure:	psig		
Salinity:	4400.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

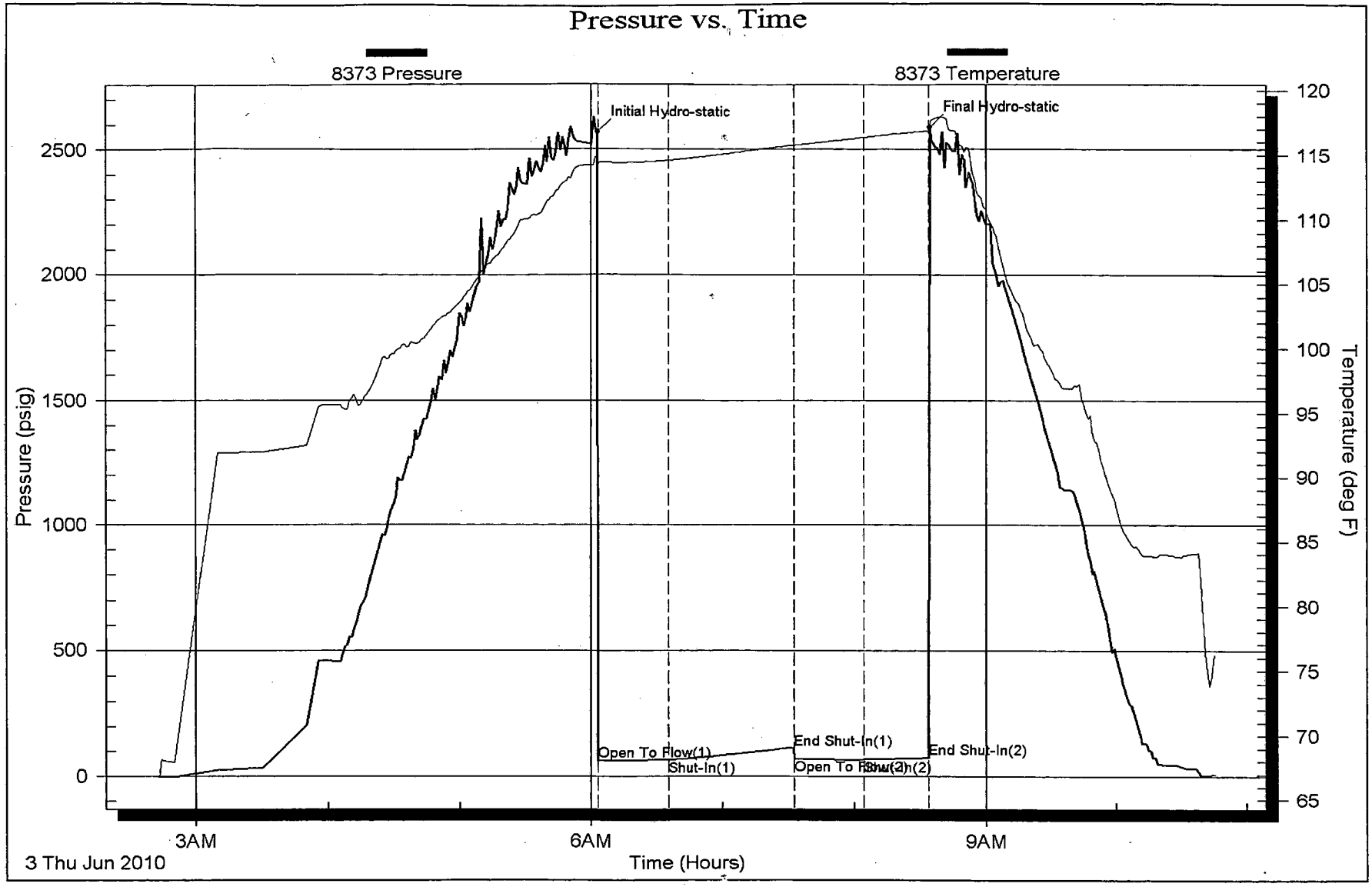
Length ft	Description	Volume bbl
10.00	100% m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8373 Pressure
8373 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Open To Flow(2)
End Shut-In(2)
Pressure (psig)
Temperature (deg F)
2500
2000
1500
1000
500
0
120
115
110
105
100
95
90
85
80
75
70
65
3AM
6AM
9AM
3 Thu Jun 2010
Time (Hours)

TRILOBITE TESTING INC.
P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
JUN 07 2010
BY:

Test Ticket

NO. 38260 14334

12/09

Well Name & No. Hartman #1-32 Test No. 1 Date 6-3-10

Company Murfin Elevation 2655 KB 2645 GL

Address 250 N Water ste Wichita KS 67202

Co. Rep / Geo. Brad Rine Rig Murfin #20

Location: Sec. 32 Twp. 27S Rge. 25W Co. Ford State KS

Interval Tested 5157-5243 Zone Tested Morrow

Anchor Length 86' Drill Pipe Run ~~5031~~ 4976 Mud Wt. 9.2

Top Packer Depth 5152 Drill Collars Run ~~224~~ 179 Vis 50

Bottom Packer Depth 5157 Wt. Pipe Run Ø WL 8.4

Total Depth 5243 Chlorides 4400 ppm System LCM 2

Blow Description IF: Built to 1/8" Blow ~~Died in~~ Died to Weak Surface Blow in 15 min
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec 10	Feet of M	%gas	%oil	%water 100	%mud
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 10 BHT 116 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic	2569	☑ Test	1325	T-On Location	1:40 AM
(B) First Initial Flow	62	☑ Jars	250	T-Started	2:43 AM
(C) First Final Flow	64	☑ Safety Joint	175	T-Open	6:02 AM
(D) Initial Shut-In	111	☑ Circ Sub	NC	T-Pulled	8:32 AM
(E) Second Initial Flow	70	☐ Hourly Standby		T-Out	10:44 AM
(F) Second Final Flow	67	☑ Mileage	52 RT 190	Comments	
(G) Final Shut-In	74	☐ Sampler			
(H) Final Hydrostatic	2589	☐ Straddle			
		☐ Shale Packer		☐ Ruined Shale Packer	
Initial Open	30	☐ Extra Packer		☐ Ruined Packer	
Initial Shut-In	60	☐ Extra Recorder		☐ Extra Copies	
Final Flow	30	☐ Day Standby		Sub Total	Ø
Final Shut-In	30	☐ Accessibility		Total	1840
		Sub Total	1840		

Approved By Brad Rine Our Representative Mitch Rebstock

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