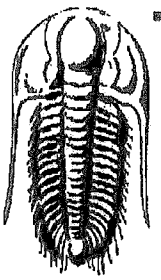
15-135-24710-0001 19-16s-24w

IND



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Company Inc.**

100 S. Main Ste. 505
Wichita, Ks 67203

ATTN: Jerry Smith

19-16-24 Ness, Ks

#1 Nuttle "A" OWWO

Start Date: 2010.09.20 @ 08:10:15
End Date: 2010.09.20 @ 16:30:45
Job Ticket #: 38353 DST #: 1

RECEIVED
OCT 0 8 2010
KCC WICHITA

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

Pickrell Drilling Company Inc. #1 Nuttle "A" OWWO 19-16-24 Ness, Ks DST # 1 Mississippian 2010.09.20

DRILL STEM TEST REPORT

Pickrell Drilling Company Inc.

100 S. Main Ste. 505
Wichita, Ks 67203

ATTN: Jerry Smith

#1 Nuttle "A" OWWO

19-16-24 Ness, Ks

Job Ticket: 38353 **DST#: 1**

Test Start: 2010.09.20 @ 08:10:15

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:00:00
Time Test Ended: 16:30:45

Test Type: Conventional Straddle
Tester: Mike Roberts
Unit No: 48

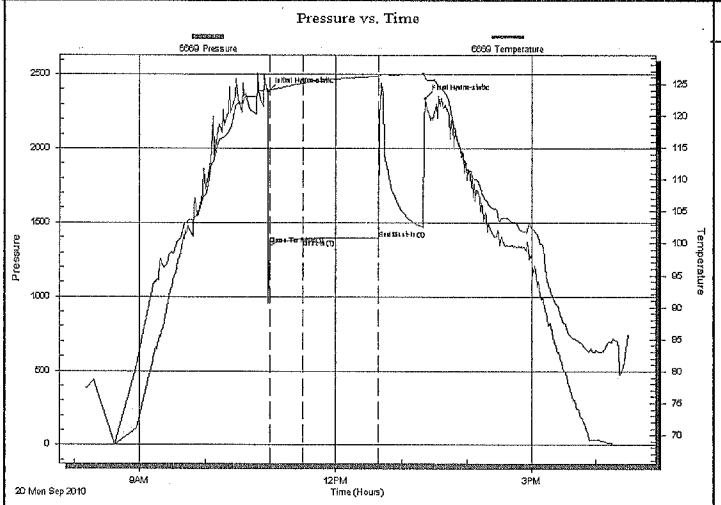
Interval: 4473.00 ft (KB) To 4551.00 ft (KB) (TVD)
Total Depth: 4551.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2555.00 ft (KB)
2550.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6669
Press@RunDepth: 1390.08 psig @ ft (KB)
Start Date: 2010.09.20 End Date: 2010.09.20
Start Time: 08:10:15 End Time: 16:30:45

Capacity: 8000.00 psig
Last Calib.: 2010.09.20
Time On Btm: 2010.09.20 @ 10:58:00
Time Off Btm: 2010.09.20 @ 13:21:15

TEST COMMENT: IF:Weak surface blow died @ 7 min.
IS:No return Blow.
FF:No blow (flushed tool- no blow)
FS:No return Blow. Mis Run plugged tool going into hole



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2380.15	124.21	Initial Hydro-static
2	1346.59	124.07	Open To Flow (1)
32	1390.08	125.12	Shut-In(1)
101	1390.56	126.21	End Shut-In(1)
144	2335.47	125.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Company Inc.

100 S. Main Ste. 505
Wichita, Ks 67203

ATTN: Jerry Smith

#1 Nuttle "A" OWWO

19-16-24 Ness, Ks

Job Ticket: 38353 **DST#: 1**

Test Start: 2010.09.20 @ 08:10:15

Tool Information

Drill Pipe:	Length:	4470.00 ft	Diameter:	3.80 inches	Volume:	62.70 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	62.70 bbl	

Drill Pipe Above KB:	20.00 ft
Depth to Top Packer:	4473.00 ft
Depth to Bottom Packer:	4551.00 ft
Interval between Packers:	78.00 ft
Tool Length:	139.00 ft
Number of Packers:	3 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	70000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	60000.00 lb
Final	62000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4451.00		
Shut In Tool	5.00			4456.00		
Hydraulic tool	5.00			4461.00		
Safety Joint	3.00			4464.00		
Packer	5.00			4469.00	23.00	Bottom Of Top Packer
Packer	4.00			4473.00		
Stubb	1.00			4474.00		
Recorder	0.00	8322	Inside	4474.00		
Recorder	0.00	8358	Inside	4474.00		
Perforations	8.00			4482.00		
Change Over Sub	1.00			4483.00		
Drill Pipe	63.00			4546.00		
Change Over Sub	1.00			4547.00		
Blank Off Sub	1.00			4548.00		
Top of packer	3.00			4551.00	78.00	Tool Interval
Packer	1.00			4552.00		
Stubb	1.00			4553.00		
Change Over Sub	1.00			4554.00		
Recorder	0.00	6669	Below	4554.00		
Drill Pipe	31.00			4585.00		
Change Over Sub	1.00			4586.00		
Bullnose	3.00			4589.00	38.00	Bottom Packers & Anchor
Total Tool Length:	**139.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Company Inc.

100 S. Main Ste. 505
Wichita, Ks 67203

ATTN: Jerry Smith

#1 Nuttle "A" OWWO

19-16-24 Ness, Ks

Job Ticket: 38353 **DST#: 1**

Test Start: 2010.09.20 @ 08:10:15

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:	ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.53 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	1.00 inches				

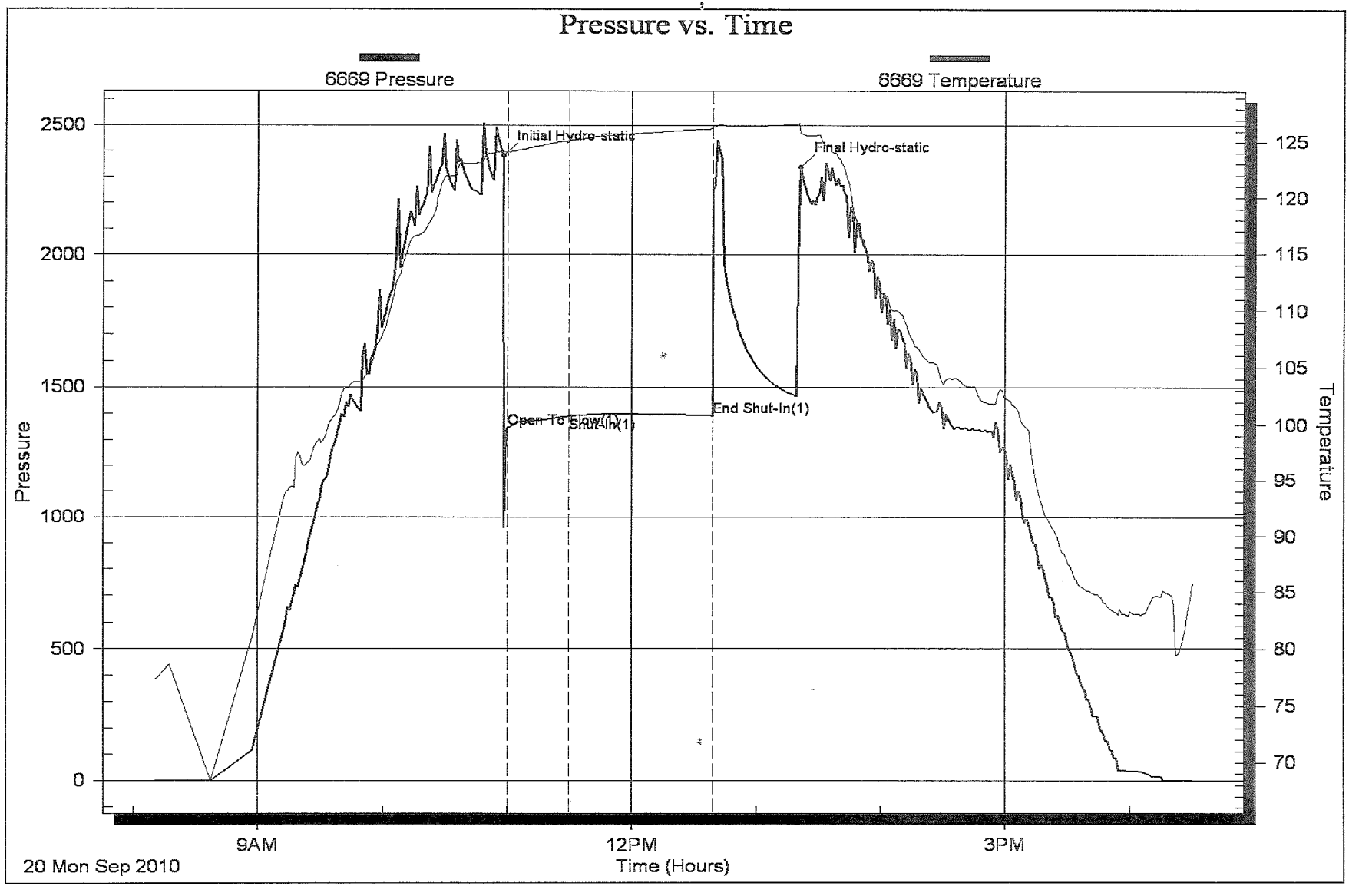
Recovery Information

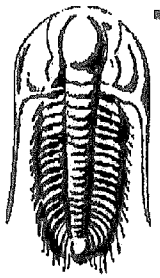
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6669 Pressure
6669 Temperature
Initial Hydro-static
Final Hydro-static
Open To Flow(1)
Shut-In(1)
End Shut-In(1)
Pressure
Temperature
2500
2000
1500
1000
500
0
125
120
115
110
105
100
95
90
85
80
75
70
9AM
12PM
3PM
20 Mon Sep 2010
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling Company Inc.**

100 S. Main Ste. 505
Wichita, Ks 67203

ATTN: Jerry Smith

19-16-24 Ness, Ks

#1 Nuttle "A" OWWO

Start Date: 2010.09.21 @ 07:12:15
End Date: 2010.09.21 @ 16:23:30
Job Ticket #: 38354 DST #: 2

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

DRILL STEM TEST REPORT

Pickrell Drilling Company Inc.

100 S. Main Ste. 505
Wichita, Ks 67203

ATTN: Jerry Smith

#1 Nuttle "A" OWWO

19-16-24 Ness, Ks

Job Ticket: 38354 **DST#: 2**

Test Start: 2010.09.21 @ 07:12:15

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:13:45
Time Test Ended: 16:23:30

Test Type: Conventional Straddle
Tester: Mike Roberts
Unit No: 48

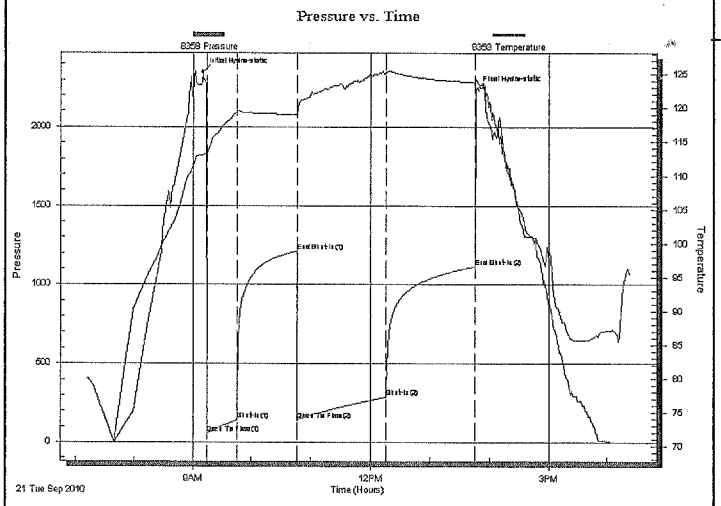
Interval: 4471.00 ft (KB) To 4556.00 ft (KB) (TVD)
Total Depth: 4556.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2555.00 ft (KB)
2550.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8358 **Inside**
Press@RunDepth: 287.35 psig @ 4472.00 ft (KB)
Start Date: 2010.09.21 End Date: 2010.09.21
Start Time: 07:12:15 End Time: 16:23:30

Capacity: 8000.00 psig
Last Calib.: 2010.09.21
Time On Btm: 2010.09.21 @ 09:09:45
Time Off Btm: 2010.09.21 @ 13:46:15

TEST COMMENT: IF: Built to 5 1/2 inch blow.
IS: No return.
FF: Built to 11 inch blow.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2347.32	113.04	Initial Hydro-static
4	56.34	112.74	Open To Flow (1)
36	140.62	119.42	Shut-In(1)
96	1211.31	119.01	End Shut-In(1)
97	142.89	118.67	Open To Flow (2)
187	287.35	125.27	Shut-In(2)
276	1112.38	123.82	End Shut-In(2)
277	2235.37	124.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW 30%M, 70% W.	1.74
62.00	GOWM 5% G, 5% O, 10% W, 80% M.	0.87
124.00	WCM 30% W, 70% M.	1.74
30.00	GCOWM 2%G 8%O 30%W 60%M	0.42
5.00	Free Oil	0.07

Gas Rates

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

DRILL STEM TEST REPORT

Pickrell Drilling Company Inc.

100 S. Main Ste. 505
Wichita, Ks 67203

ATTN: Jerry Smith

#1 Nuttle "A" OWWO

19-16-24 Ness, Ks

Job Ticket: 38354 **DST#: 2**

Test Start: 2010.09.21 @ 07:12:15

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:13:45
Time Test Ended: 16:23:30

Test Type: Conventional Straddle
Tester: Mike Roberts
Unit No: 48

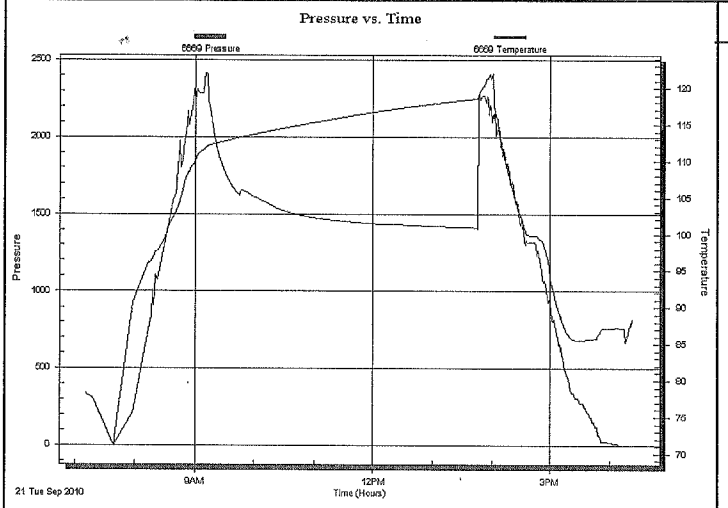
Interval: 4471.00 ft (KB) To 4556.00 ft (KB) (TVD)
Total Depth: 4556.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2555.00 ft (KB)
2550.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6669 **Below (Straddle)**
Press@RunDepth: psig @ 4562.00 ft (KB)
Start Date: 2010.09.21 End Date: 2010.09.21
Start Time: 07:11:31 End Time: 16:22:46

Capacity: 8000.00 psig
Last Calib.: 2010.09.21
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Built to 5 1/2 inch blow.
IS: No return.
FF: Built to 11 inch blow.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW 30%M, 70% W.	1.74
62.00	GOWM 5% G, 5% O, 10% W, 80% M.	0.87
124.00	WCM 30% W, 70% M.	1.74
30.00	GCOWM 2%G 8%O 30%W 60%M	0.42
5.00	Free Oil	0.07

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling Company Inc.

100 S. Main Ste. 505
Wichita, Ks 67203

ATTN: Jerry Smith

#1 Nuttle "A" OWWO

19-16-24 Ness, Ks

Job Ticket: 38354 **DST#: 2**

Test Start: 2010.09.21 @ 07:12:15

Tool Information

Drill Pipe:	Length:	4468.00 ft	Diameter:	3.80 inches	Volume:	62.67 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	
					Total Volume:	62.67 bbl	

Drill Pipe Above KB:	20.00 ft
Depth to Top Packer:	4471.00 ft
Depth to Bottom Packer:	4556.00 ft
Interval between Packers:	85.00 ft
Tool Length:	149.00 ft
Number of Packers:	3 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	20000.00 lb
Weight to Pull Loose:	70000.00 lb
Tool Chased	0.00 ft
String Weight: Initial	60000.00 lb
Final	62000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4449.00		
Shut In Tool	5.00			4454.00		
Hydraulic tool	5.00			4459.00		
Safety Joint	3.00			4462.00		
Packer	5.00			4467.00	23.00	Bottom Of Top Packer
Packer	4.00			4471.00		
Stubb	1.00			4472.00		
Recorder	0.00	8322	Inside	4472.00		
Recorder	0.00	8358	Inside	4472.00		
Change Over Sub	1.00			4473.00		
Drill Pipe	63.00			4536.00		
Change Over Sub	1.00			4537.00		
Perforations	5.00			4542.00		
Perforations	10.00			4552.00		
Blank Off Sub	1.00			4553.00		
Blank Spacing	3.00			4556.00	85.00	Tool Interval
Packer	0.00			4556.00		
Stubb	1.00			4557.00		
Perforations	4.00			4561.00		
Change Over Sub	1.00			4562.00		
Recorder	0.00	6669	Below	4562.00		
Drill Pipe	31.00			4593.00		
Change Over Sub	1.00			4594.00		
Bullnose	3.00			4597.00	41.00	Bottom Packers & Anchor
Total Tool Length:	**149.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Pickrell Drilling Company Inc.

100 S. Main Ste. 505
Wichita, Ks 67203

ATTN: Jerry Smith

#1 Nuttle "A" OWWO

19-16-24 Ness, Ks

Job Ticket: 38354 **DST#: 2**

Test Start: 2010.09.21 @ 07:12:15

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:	47.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.98 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

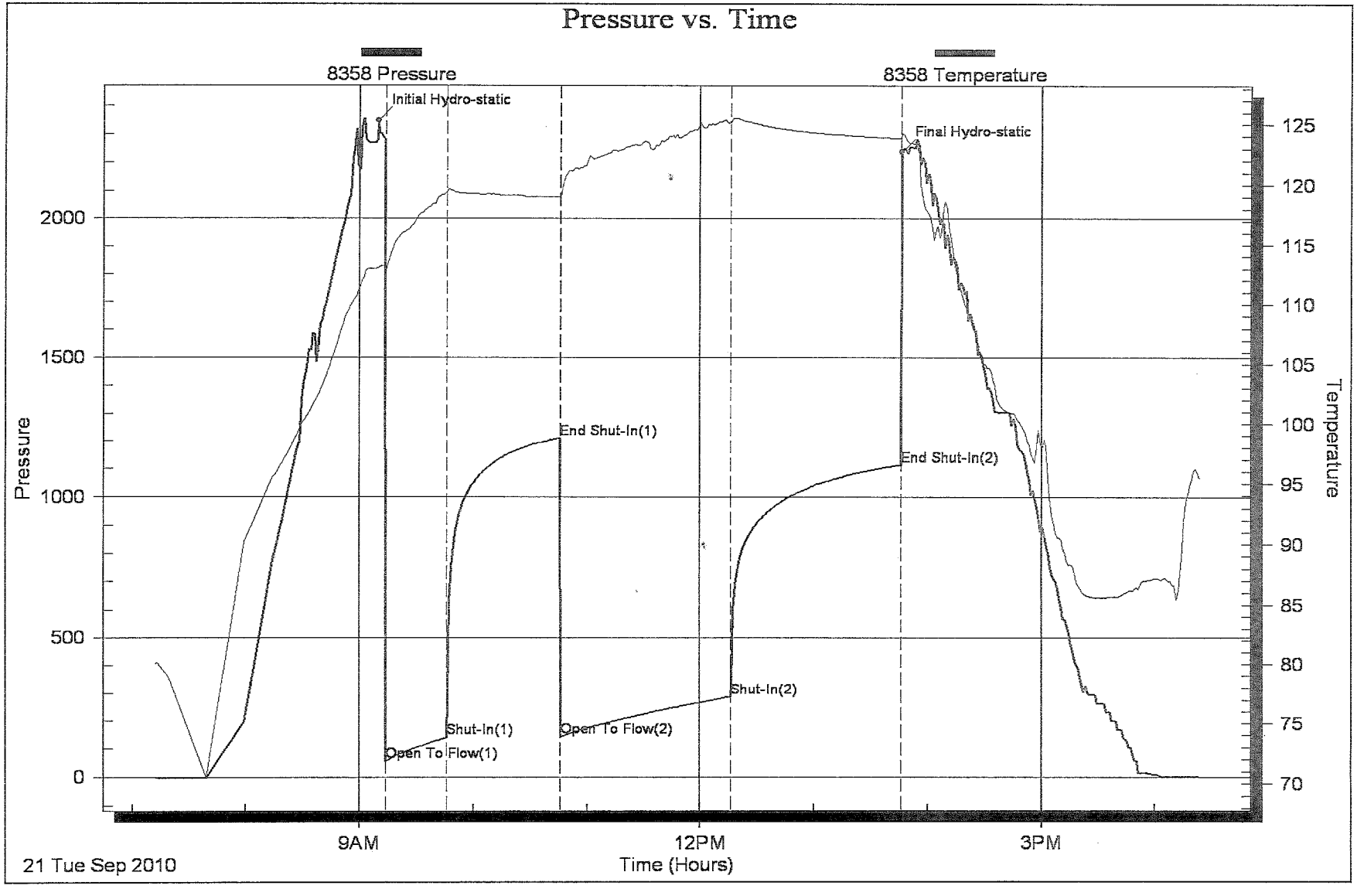
Length ft	Description	Volume bbl
124.00	MW 30%M, 70% W.	1.739
62.00	GOWM 5% G, 5% O, 10% W, 80% M.	0.870
124.00	WCM 30% W, 70% M.	1.739
30.00	GCOWM 2%G 8%O 30%W 60%M	0.421
5.00	Free Oil	0.070

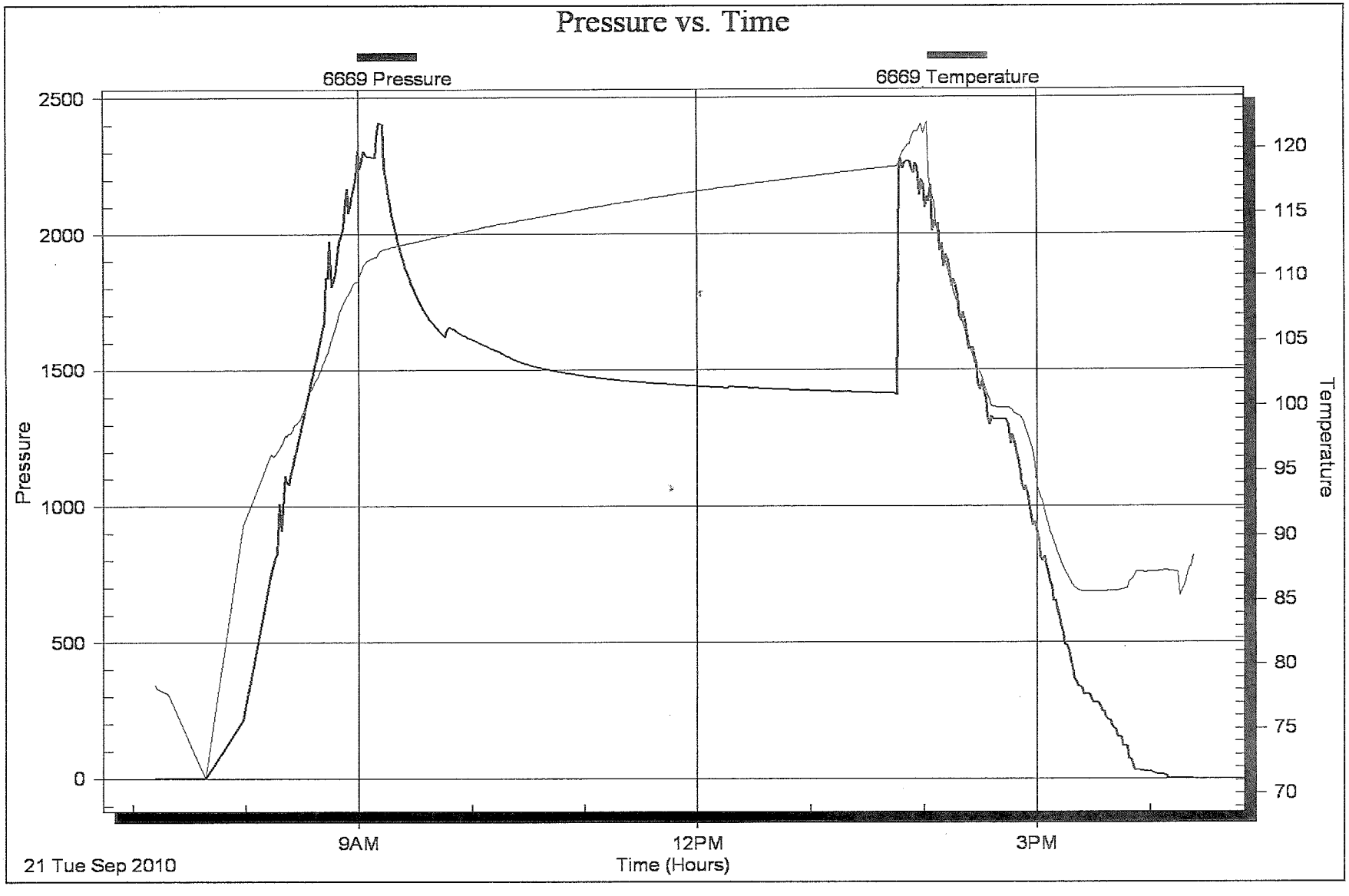
Total Length: 345.00 ft Total Volume: 4.839 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8358 Pressure
8358 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure
Temperature
2000
1500
1000
500
0
125
120
115
110
105
100
95
90
85
80
75
70
9AM
12PM
3PM
21 Tue Sep 2010
Time (Hours)


Pressure vs. Time
6669 Pressure
6669 Temperature
2500
2000
1500
1000
500
0
Pressure
120
115
110
105
100
95
90
85
80
75
70
Temperature
9AM
12PM
3PM
21 Tue Sep 2010
Time (Hours)