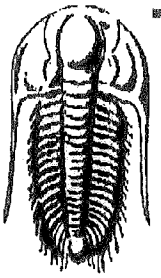
15-051-26055 15-13s-20w

IND



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Double"D"s LLC.**

133 East 12th st
Hays KS 67601

ATTN: Al Downing

15-13s-20w Ellis,KS

#1 Wegele

Start Date: 2010.11.29 @ 11:33:05
End Date: 2010.11.29 @ 17:05:59
Job Ticket #: 039991 DST #: 1

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

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Double"D"s LLC. #1 Wegele 15-13s-20w Ellis,KS DST # 1 Topeka 30ft Zone 2010.11.29

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Double"D's LLC.

133 East 12th st
Hays KS 67601

ATTN: Al Dow ning

#1 Wegele

15-13s-20w Ellis,KS

Job Ticket: 039991 **DST#: 1**

Test Start: 2010.11.29 @ 11:33:05

GENERAL INFORMATION:

Formation: **Topeka 30ft Zone**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:31:30
Time Test Ended: 17:05:59

Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 31

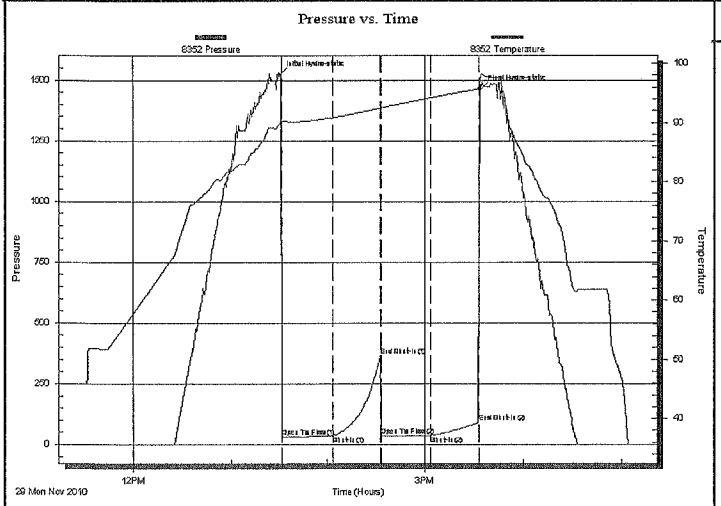
Interval: 3246.00 ft (KB) To 3274.00 ft (KB) (TVD)
Total Depth: 3274.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2195.00 ft (KB)
2187.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8352 **Outside**
Press@RunDepth: 36.79 psig @ 3247.00 ft (KB)
Start Date: 2010.11.29 End Date: 2010.11.29
Start Time: 11:33:05 End Time: 17:05:59

Capacity: 8000.00 psig
Last Calib.: 2010.11.29
Time On Btm: 2010.11.29 @ 13:30:10
Time Off Btm: 2010.11.29 @ 15:34:10

TEST COMMENT: IF: Weak, Half inch, Died in 20 min.
IS: No Return
FF: Weak surface blow
FS: No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1522.14	89.69	Initial Hydro-static
2	31.68	89.97	Open To Flow (1)
34	34.28	90.84	Shut-In(1)
63	363.03	92.42	End Shut-In(1)
64	35.53	92.40	Open To Flow (2)
94	36.79	94.16	Shut-In(2)
123	90.36	95.69	End Shut-In(2)
125	1461.30	98.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
55.00	OSM	0.48

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Double"D's LLC.

133 East 12th st
Hays KS 67601

ATTN: Al Dow ning

#1 Wegele

15-13s-20w Ellis,KS

Job Ticket: 039991 **DST#: 1**

Test Start: 2010.11.29 @ 11:33:05

Tool Information

Drill Pipe:	Length:	3205.00 ft	Diameter:	3.80 inches	Volume:	44.96 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length:	31.52 ft	Diameter:	2.25 inches	Volume:	0.16 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	45.12 bbl	Tool Chased	8.00 ft
Drill Pipe Above KB:		10.52 ft					String Weight: Initial	46000.00 lb
Depth to Top Packer:		3246.00 ft					Final	46000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		28.00 ft						
Tool Length:		48.00 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			3227.00		
Shut In Tool	5.00			3232.00		
Hydraulic tool	5.00			3237.00		
Packer	5.00			3242.00	20.00	Bottom Of Top Packer
Packer	4.00			3246.00		
Stubb	1.00			3247.00		
Recorder	0.00	8017	Inside	3247.00		
Recorder	0.00	8352	Outside	3247.00		
Perforations	24.00			3271.00		
Bullnose	3.00			3274.00	28.00	Bottom Packers & Anchor
Total Tool Length:	**48.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Double"D's LLC.

133 East 12th st
Hays KS 67601

ATTN: Al Dow ning

#1 Wegele

15-13s-20w Ellis,KS

Job Ticket: 039991 **DST#: 1**

Test Start: 2010.11.29 @ 11:33:05

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	inches				

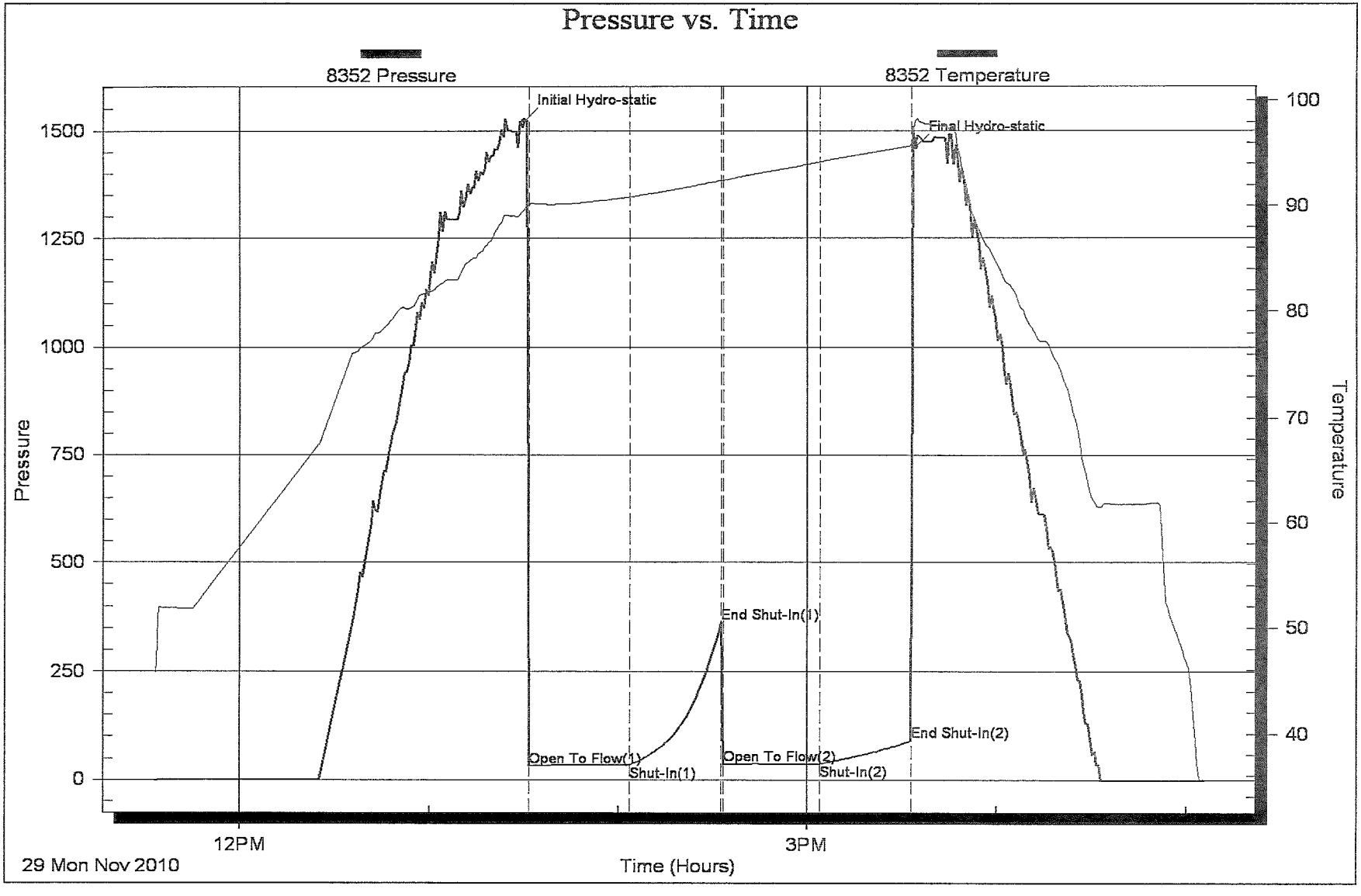
Recovery Information

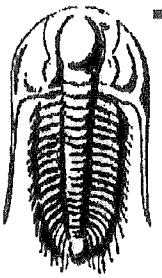
Recovery Table

Length ft	Description	Volume bbl
55.00	OSM	0.484

Total Length: 55.00 ft Total Volume: 0.484 bbl

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


Pressure vs. Time
8352 Pressure
8352 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
1500
1250
1000
750
500
250
0
Pressure
100
90
80
70
60
50
40
Temperature
12PM
3PM
29 Mon Nov 2010
Time (Hours)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Double"D"s LLC.**

133 East 12th st
Hays KS 67601

ATTN: Al Downing

15-13s-20w Ellis,KS

#1 Wegele

Start Date: 2010.11.30 @ 12:16:05

End Date: 2010.11.30 @ 18:45:39

Job Ticket #: 039992 DST #: 2

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Double"D's LLC.

133 East 12th st
Hays KS 67601

ATTN: Al Dow ning

#1 Wegele

15-13s-20w Ellis,KS

Job Ticket: 039992 **DST#: 2**

Test Start: 2010.11.30 @ 12:16:05

GENERAL INFORMATION:

Formation: **LKC"A-C"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:08:00
Time Test Ended: 18:45:39

Test Type: Conventional Bottom Hole
Tester: Andy Carreira
Unit No: 31

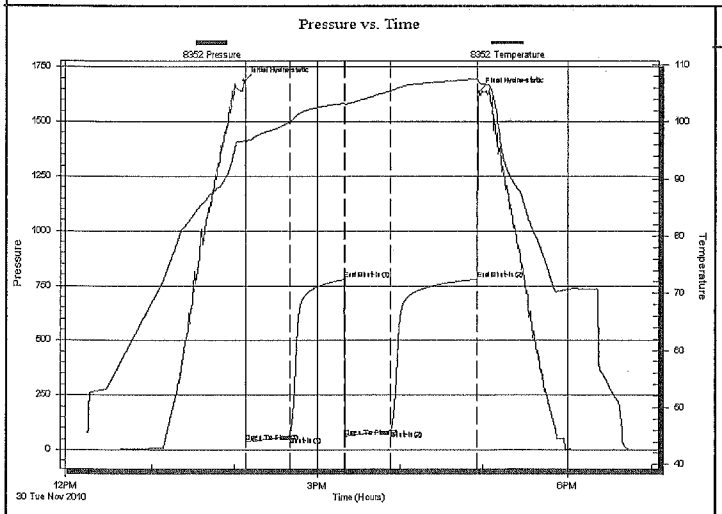
Interval: 3488.00 ft (KB) To 3545.00 ft (KB) (TVD)
Total Depth: 3545.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2195.00 ft (KB)
2187.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8352 **Outside**
Press@RunDepth: 86.68 psig @ 3495.00 ft (KB)
Start Date: 2010.11.30 End Date: 2010.11.30
Start Time: 12:16:05 End Time: 18:45:40

Capacity: 8000.00 psig
Last Calib.: 2010.11.30
Time On Btm: 2010.11.30 @ 14:07:00
Time Off Btm: 2010.11.30 @ 16:56:59

TEST COMMENT: IF: BOB, 12 min.
IS: Surface blow back after 15 min. died in 10 min.
FF: BOB,5 min.
FS: No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1685.89	96.76	Initial Hydro-static
1	36.42	96.04	Open To Flow (1)
33	59.94	99.94	Shut-In(1)
73	778.29	103.26	End Shut-In(1)
74	58.44	103.05	Open To Flow (2)
107	86.68	105.45	Shut-In(2)
169	779.45	107.50	End Shut-In(2)
170	1636.10	106.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
165.00	GOCM g=25% o=20% m=55%	2.03
0.00	GIP=455ft	0.00

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Double"D's LLC.

133 East 12th st
Hays KS 67601

ATTN: Al Dow ning

#1 Wegele

15-13s-20w Ellis,KS

Job Ticket: 039992 **DST#: 2**

Test Start: 2010.11.30 @ 12:16:05

Tool Information

Drill Pipe:	Length:	3447.00 ft	Diameter:	3.80 inches	Volume:	48.35 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	
Drill Collar:	Length:	31.52 ft	Diameter:	2.25 inches	Volume:	0.16 bbl	
					Total Volume:	48.51 bbl	

Drill Pipe Above KB:	10.52 ft
Depth to Top Packer:	3488.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	57.00 ft
Tool Length:	77.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2500.00 lb
Weight set on Packer:	24000.00 lb
Weight to Pull Loose:	55000.00 lb
Tool Chased	6.00 ft
String Weight: Initial	47000.00 lb
Final	49000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3469.00		
Shut In Tool	5.00			3474.00		
Hydraulic tool	5.00			3479.00		
Packer	5.00			3484.00	20.00	Bottom Of Top Packer
Packer	4.00			3488.00		
Stubb	1.00			3489.00		
Perforations	5.00			3494.00		
Change Over Sub	1.00			3495.00		
Recorder	0.00	8017	Inside	3495.00		
Recorder	0.00	8352	Outside	3495.00		
Drill Pipe	31.00			3526.00		
Change Over Sub	1.00			3527.00		
Perforations	15.00			3542.00		
Bullnose	3.00			3545.00	57.00	Bottom Packers & Anchor
Total Tool Length:	**77.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Double"D's LLC.

133 East 12th st
Hays KS 67601

ATTN: Al Dow ning

#1 Wegele

15-13s-20w Ellis,KS

Job Ticket: 039992 **DST#: 2**

Test Start: 2010.11.30 @ 12:16:05

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	inches				

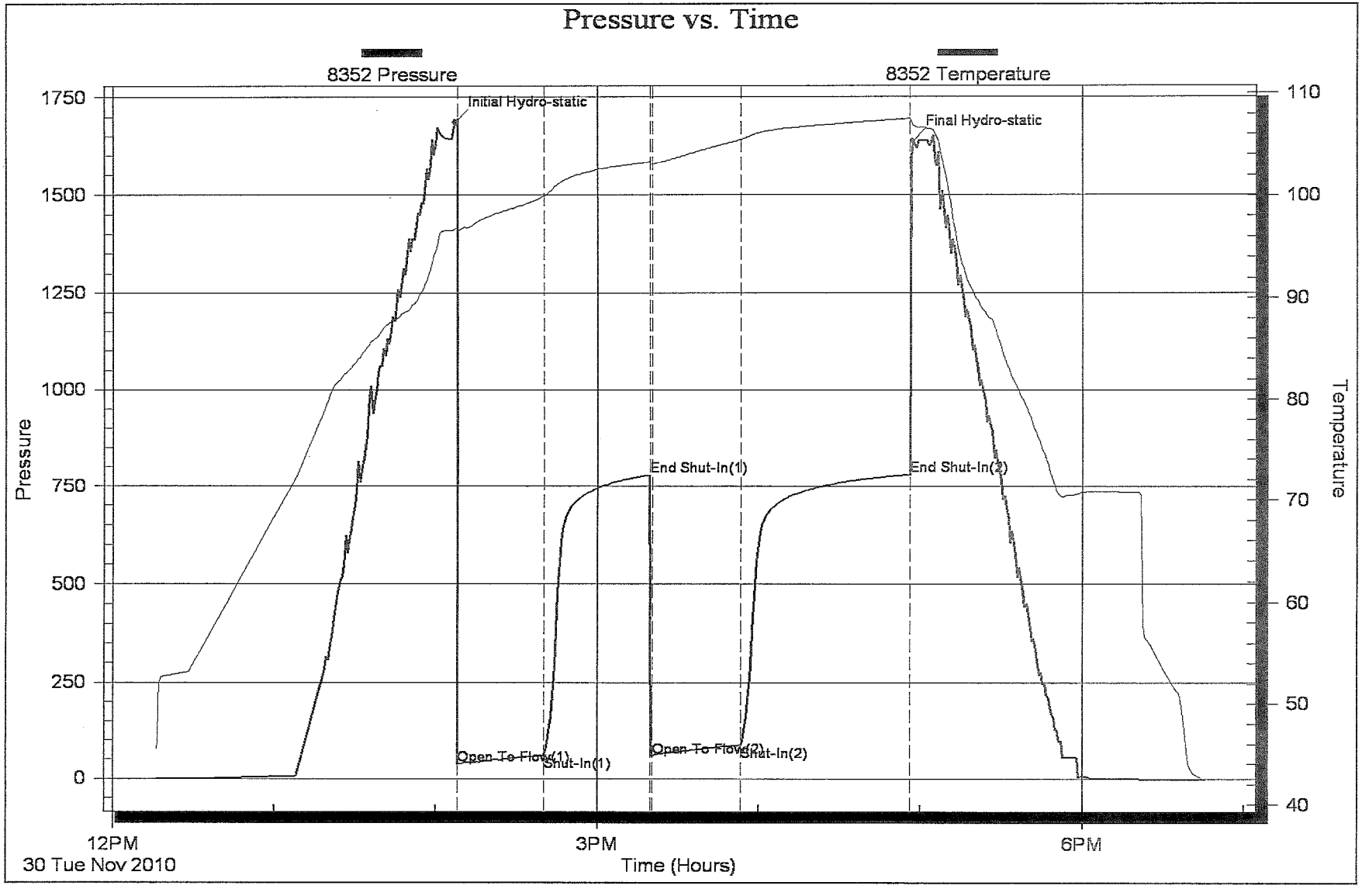
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
165.00	GOCM g=25% o=20% m=55%	2.027
0.00	GIP=455ft	0.000

Total Length: 165.00 ft Total Volume: 2.027 bbl

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


Pressure vs. Time
8352 Pressure
8352 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
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Time (Hours)