



KANSAS CORPORATION COMMISSION 1105988
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34439
Name: BOP West, LLC
Address 1: PO BOX 129
Address 2: _____
City: WOOSTER State: OH Zip: 44691 + _____
Contact Person: Steve Sigler
Phone: (330) 264-8847
CONTRACTOR: License # 32701
Name: C & G Drilling, Inc.
Wellsite Geologist: Ken Wallace
Purchaser: CVR Energy

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
 Gas D&A ENHR SIGW
 OG GSW Temp. Abd.
 CM (Coal Bed Methane)
 Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

10/30/2012 11/05/2012 1/4/2013
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-169-20342-00-00

Spot Description: _____
SE NW NW SE Sec. 20 Twp. 16 S. R. 1 East West
2063 Feet from North / South Line of Section
2185 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Saline

Lease Name: Van Meter Well #: 20-1

Field Name: Hunter

Producing Formation: Mississippian

Elevation: Ground: 1319 Kelly Bushing: 1328

Total Depth: 2710 Plug Back Total Depth: 2698

Amount of Surface Pipe Set and Cemented at: 219 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 1200 ppm Fluid volume: 0 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

25

- Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Garrison Date: 01/30/2013

1105988

Operator Name: BOP West, LLC Lease Name: Van Meter Well #: 20-1
 Sec. 20 Twp. 16 S. R. 1 East West County: Saline

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Compensated Neutron Density Dual Induction Cement Bond Log	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Heebner Shale</td> <td>1834</td> <td>-506</td> </tr> <tr> <td>Douglas</td> <td>1862</td> <td>-534</td> </tr> <tr> <td>Lansing</td> <td>2049</td> <td>-721</td> </tr> <tr> <td>Stark Shale</td> <td>2312</td> <td>-984</td> </tr> <tr> <td>Cherokee</td> <td>2565</td> <td>-1237</td> </tr> <tr> <td>Mississippian</td> <td>2648</td> <td>-1320</td> </tr> </table>	Name	Top	Datum	Heebner Shale	1834	-506	Douglas	1862	-534	Lansing	2049	-721	Stark Shale	2312	-984	Cherokee	2565	-1237	Mississippian	2648	-1320
Name	Top	Datum																				
Heebner Shale	1834	-506																				
Douglas	1862	-534																				
Lansing	2049	-721																				
Stark Shale	2312	-984																				
Cherokee	2565	-1237																				
Mississippian	2648	-1320																				

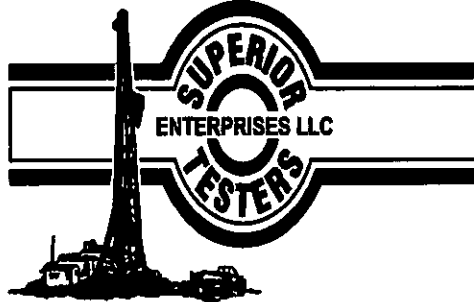
CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	219	Class A	140	3%CaCl, 2% Gel, 25# Flocc
Production	7.875	5.5	14	2709	Thix Set	100	5# Kol-seal

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	2660'-2663' + 2670' -2672'	No acid	2660'-2663' + 2670' -2672'

TUBING RECORD:		Size: <u>2.875</u>	Set At: <u>2690'</u>	Packer At: <u>None</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>1/22/2013</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>14</u>	Gas Mcf <u>0</u>	Water Bbls. <u>326</u>	Gas-Oil Ratio <u>0</u>	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>2660'-2663'</u> <u>2670'-2672'</u>
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DRILL STEM TEST REPORT

Prepared For: **BOP West L.L.C**

Po Box 129 Wooster OH 44691

ATTN: Ken Wallace

Van Meter#20-1

20-16-1 Saline

Start Date: 2012.11.02 @ 02:40:00

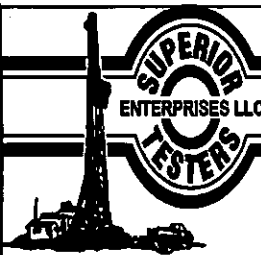
End Date: 2012.11.02 @ 09:14:30

Job Ticket #: 16891 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.11.02 @ 09:31:34

BOP West L.L.C 20-16-1 Saline Van Meter#20-1 DST # 1 Douglas 2012.11.02



DRILL STEM TEST REPORT

BOP West L.L.C
 Po Box 129 Wooster OH 44691
 ATTN: Ken Wallace

20-16-1 Saline
Van Meter#20-1
 Job Ticket: 16891 **DST#: 1**
 Test Start: 2012.11.02 @ 02:40:00

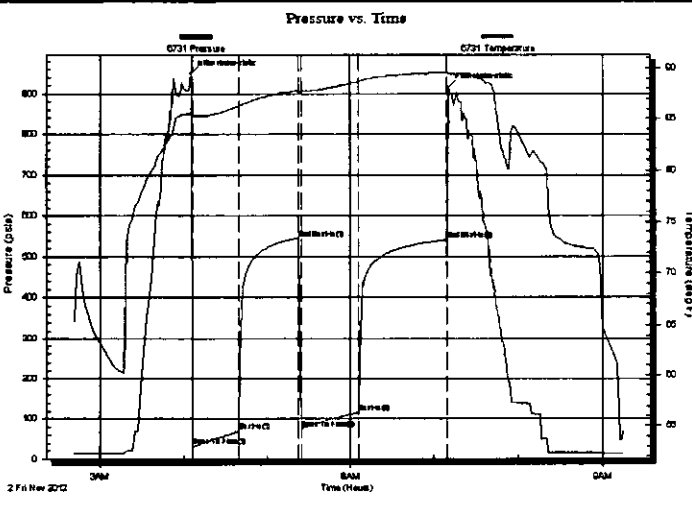
GENERAL INFORMATION:

Formation: **Douglas**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:06:30
 Time Test Ended: 09:14:30
 Interval: **1861.00 ft (KB) To 1870.00 ft (KB) (TVD)**
 Total Depth: **1870.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-220-Great Bend
 Reference Elevations: 1325.00 ft (KB)
 1319.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6731

Press@RunDepth: 116.21 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.02 End Date: 2012.11.02 Last Calib.: 2012.11.02
 Start Time: 02:40:00 End Time: 09:14:30 Time On Btm: 2012.11.02 @ 04:05:30
 Time Off Btm: 2012.11.02 @ 07:10:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 6 inches into bucket water in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 6 1/2 inches into bucket water in 45 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

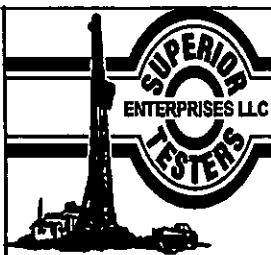
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	949.70	85.49	Initial Hydro-static
1	33.60	85.31	Open To Flow (1)
34	69.02	86.23	Shut-In(1)
78	545.78	87.78	End Shut-In(1)
79	74.41	87.70	Open To Flow (2)
120	116.21	88.66	Shut-In(2)
184	541.37	89.53	End Shut-In(2)
185	914.74	89.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Water 95%w water 5%mud	0.89
0.00	Chlorides 100,000 resistivity .1@65deg	0.00

Gas Rates

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



DRILL STEM TEST REPORT

BOP West L.L.C
 Po Box 129 Wooster OH 44691
 ATTN: Ken Wallace

20-16-1 Saline
Van Meter#20-1
 Job Ticket: 16891 **DST#: 1**
 Test Start: 2012.11.02 @ 02:40:00

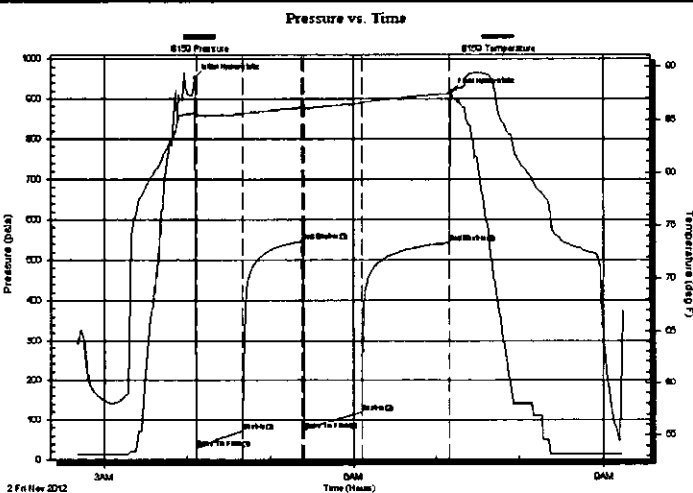
GENERAL INFORMATION:

Formation: **Douglas**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:06:30
 Time Test Ended: 09:14:30
 Interval: **1861.00 ft (KB) To 1870.00 ft (KB) (TVD)**
 Total Depth: **1870.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-220-Great Bend
 Reference Elevations: 1325.00 ft (KB)
 1319.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8159

Press@RunDepth: 542.92 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.02 End Date: 2012.11.02 Last Calib.: 2012.11.02
 Start Time: 02:40:00 End Time: 09:14:00 Time On Btm: 2012.11.02 @ 04:05:30
 Time Off Btm: 2012.11.02 @ 07:11:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 6 inches into bucket water in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 6 1/2 inches into bucket water in 45 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

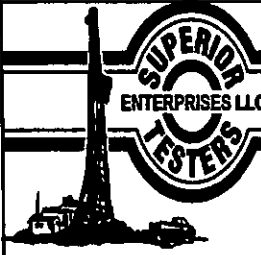
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	952.89	85.58	Initial Hydro-static
2	31.44	85.41	Open To Flow (1)
34	71.28	85.50	Shut-In(1)
78	547.24	86.11	End Shut-In(1)
79	73.95	86.03	Open To Flow (2)
121	118.56	86.55	Shut-In(2)
184	542.92	87.45	End Shut-In(2)
186	915.95	87.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Water 95%w ater 5%mud	0.89
0.00	Chlorides 100,000 resistivity .1@65deg	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

BOP West L.L.C
 Po Box 129 Wooster OH 44691
 ATTN: Ken Wallace

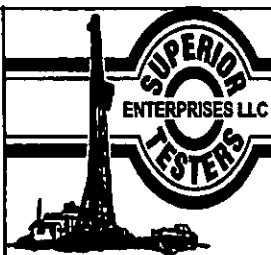
20-16-1 Saline
Van Meter#20-1
 Job Ticket: 16891 **DST#: 1**
 Test Start: 2012.11.02 @ 02:40:00

Tool Information

Drill Pipe:	Length: 1620.00 ft	Diameter: 3.80 inches	Volume: 22.72 bbl	Tool Weight:	1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	46000.00 lb
			<u>Total Volume: 23.90 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	1861.00 ft			Final	20000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	9.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			1840.00	
Hydraulic Tool	5.00			1845.00	
Jars	6.00			1851.00	
Packer	5.00			1856.00	26.00 Bottom Of Top Packer
Packer	5.00			1861.00	
Anchor	4.00			1865.00	
Recorder	1.00	6731	Inside	1866.00	
Recorder	1.00	8159	Outside	1867.00	
Bullnose	3.00			1870.00	9.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

BOP West L.L.C
Po Box 129 Wooster OH 44691
ATTN: Ken Wallace

20-16-1 Saline
Van Meter#20-1
Job Ticket: 16891 **DST#:1**
Test Start: 2012.11.02 @ 02:40:00

Mud and Cushion Information

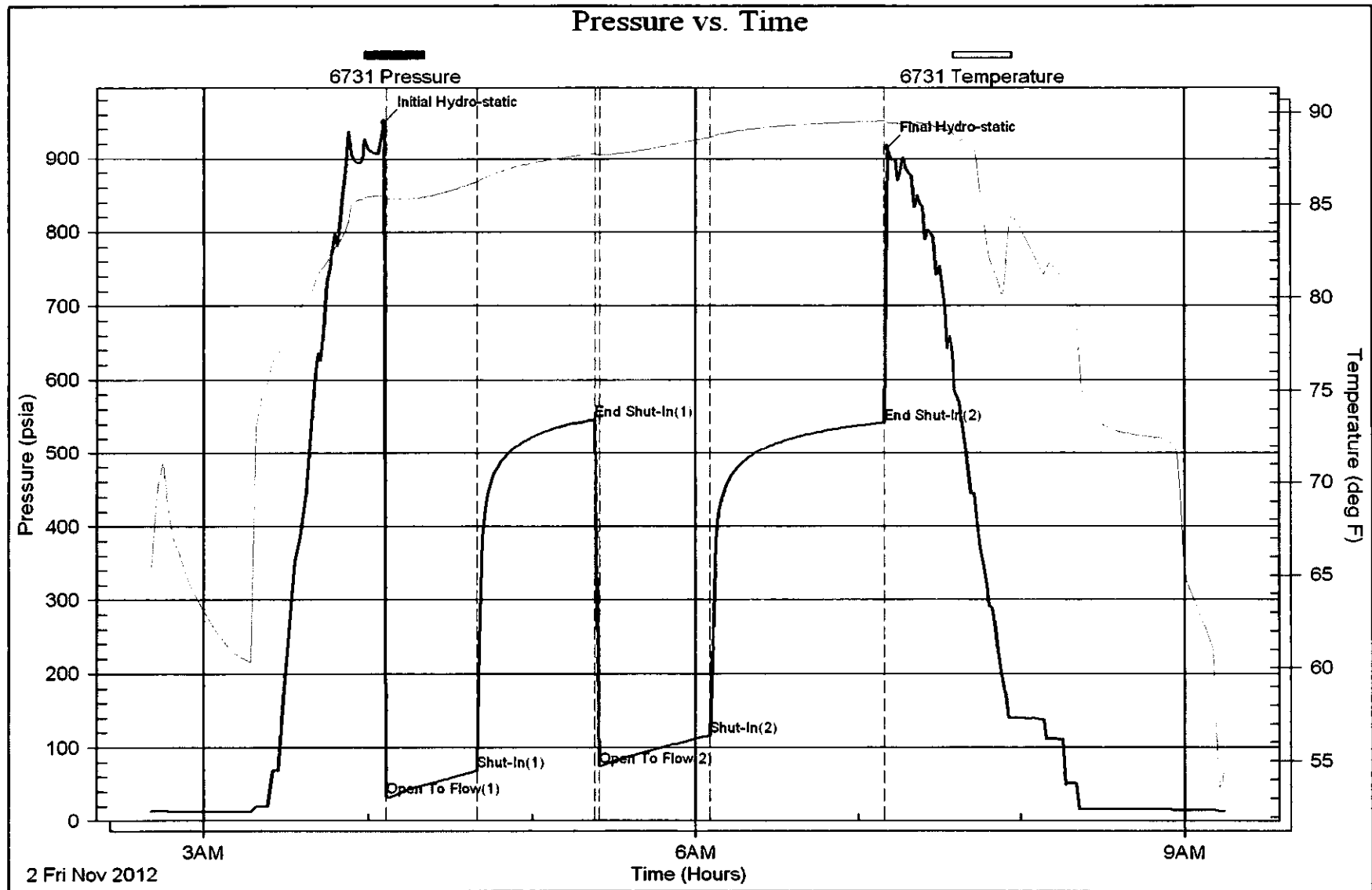
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 0.00 sec/qt	Cushion Volume: bbl		
Water Loss: 0.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2400.00 ppm			
Filter Cake: 1.00 inches			

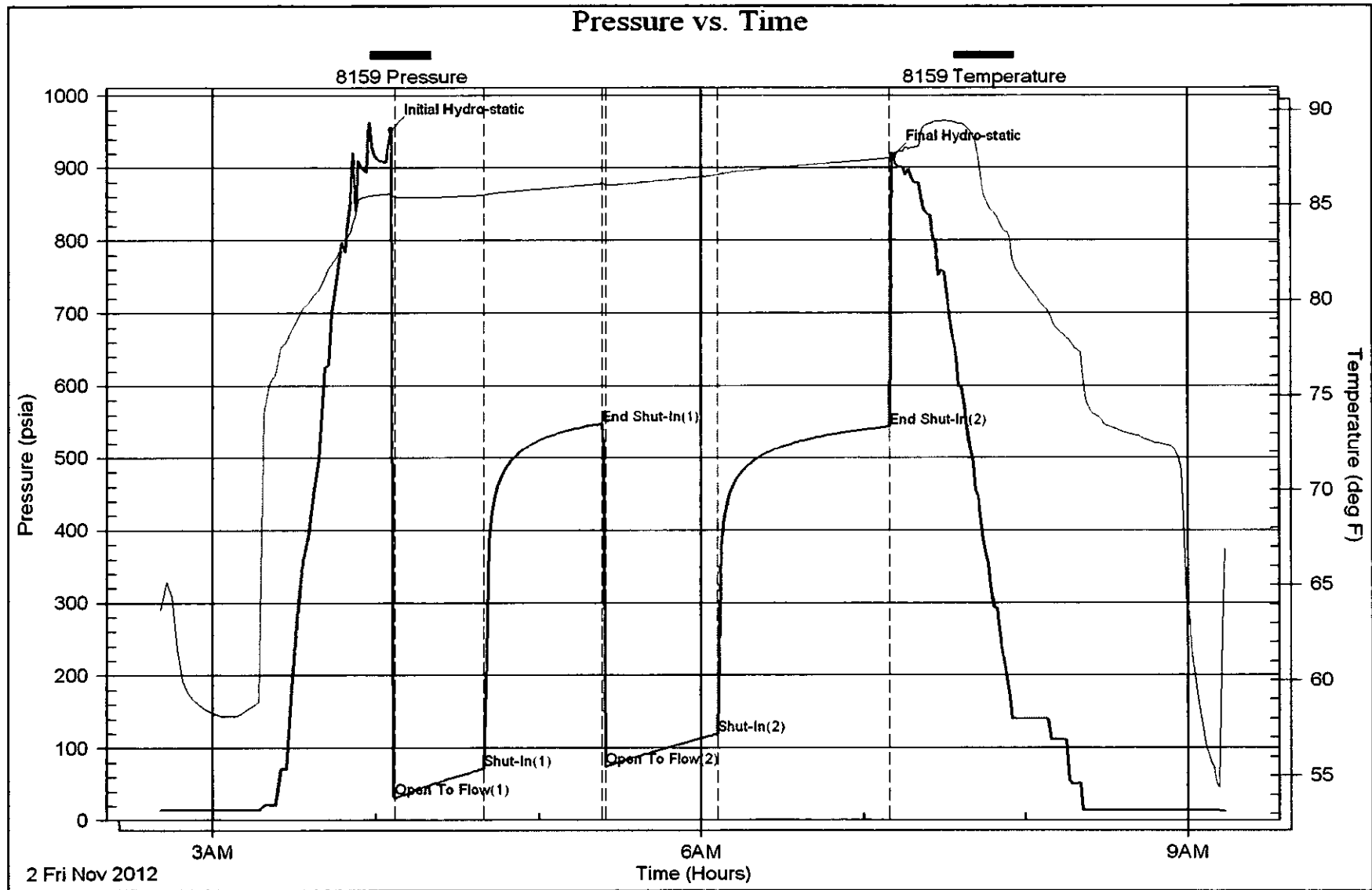
Recovery Information

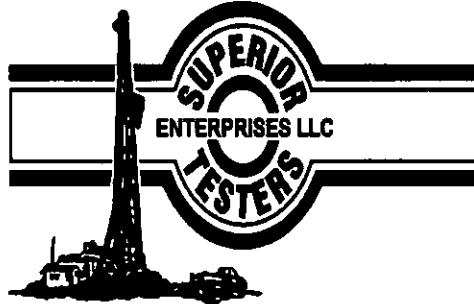
Recovery Table

Length ft	Description	Volume bbl
180.00	Water 95%w ater 5%mud	0.885
0.00	Chlorides 100,000 resistivity .1@65deg	0.000

Total Length: 180.00 ft Total Volume: 0.885 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **BOP West L.L.C**

Po Box 129 Wooster OH 44691

ATTN: Ken Wallace

Van Meter#20-1

20-16-1 Saline

Start Date: 2012.11.04 @ 11:45:00

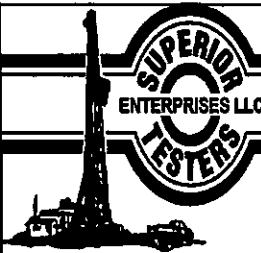
End Date: 2012.11.04 @ 18:10:30

Job Ticket #: 16892 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.11.04 @ 17:56:32

BOP West L.L.C 20-16-1 Saline Van Meter#20-1 DST # 2 Mississippi 2012.11.04



DRILL STEM TEST REPORT

BOP West L.L.C
 Po Box 129 Wooster OH 44691
 ATTN: Ken Wallace

20-16-1 Saline
Van Meter#20-1
 Job Ticket: 16892 **DST#:2**
 Test Start: 2012.11.04 @ 11:45:00

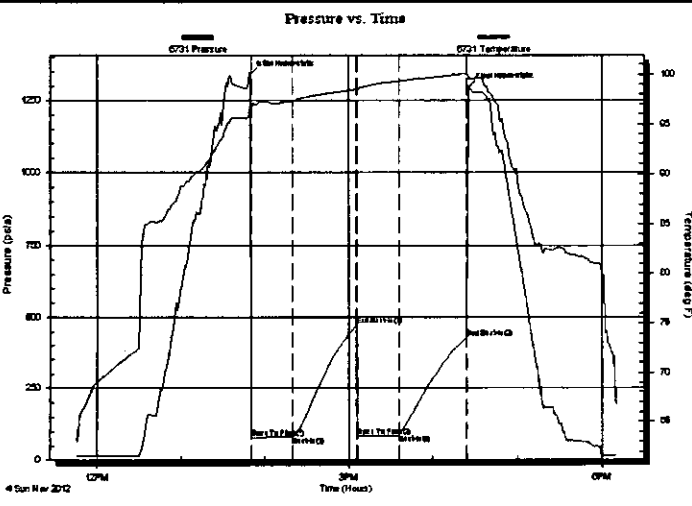
GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:50:30
 Time Test Ended: 18:10:30
 Interval: **2563.00 ft (KB) To 2655.00 ft (KB) (TVD)**
 Total Depth: **2655.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-220
 Reference Elevations: 1325.00 ft (KB)
 1319.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6731

Press@RunDepth: 87.75 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.04 End Date: 2012.11.04 Last Calib.: 2012.11.04
 Start Time: 11:45:00 End Time: 18:10:30 Time On Btm: 2012.11.04 @ 13:49:30
 Time Off Btm: 2012.11.04 @ 16:26:00

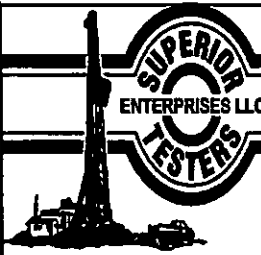
TEST COMMENT: 1st Opening 30 Minutes-Weak surface blow built 1/2 inch into bucket w ater in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 30 Minutes-Weak surface blow died off
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1339.91	96.59	Initial Hydro-static
1	77.78	96.60	Open To Flow (1)
31	83.12	97.34	Shut-In(1)
76	472.37	98.51	End Shut-In(1)
77	83.60	98.47	Open To Flow (2)
107	87.75	99.32	Shut-In(2)
155	431.40	100.07	End Shut-In(2)
157	1295.68	99.60	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

Gas Rates			
	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)



DRILL STEM TEST REPORT

BOP West L.L.C
 Po Box 129 Wooster OH 44691
 ATTN: Ken Wallace

20-16-1 Saline
Van Meter#20-1
 Job Ticket: 16892 **DST#: 2**
 Test Start: 2012.11.04 @ 11:45:00

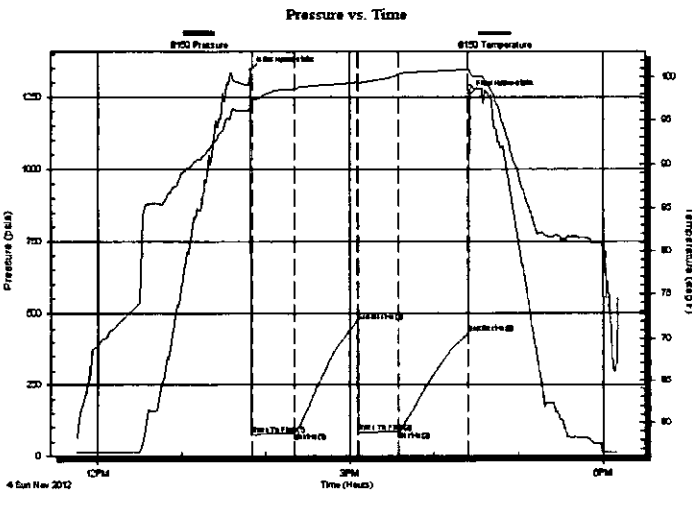
GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:50:30
 Time Test Ended: 18:10:30
 Interval: **2563.00 ft (KB) To 2655.00 ft (KB) (TVD)**
 Total Depth: **2655.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-220
 Reference Elevations: 1325.00 ft (KB)
 1319.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8159

Press@RunDepth: 434.27 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.04 End Date: 2012.11.04 Last Calib.: 2012.11.04
 Start Time: 11:45:00 End Time: 18:10:30 Time On Btm: 2012.11.04 @ 13:49:00
 Time Off Btm: 2012.11.04 @ 16:25:30

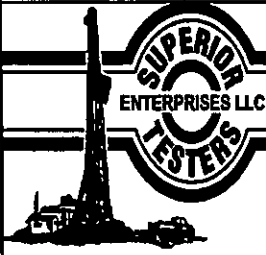
TEST COMMENT: 1st Opening 30 Minutes-Weak surface blow built 1/2 inch into bucket w ater in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 30 Minutes-Weak surface blow died off
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1345.02	97.06	Initial Hydro-static
1	75.09	97.30	Open To Flow (1)
32	80.97	98.63	Shut-in(1)
77	475.84	99.42	End Shut-in(1)
78	82.49	99.34	Open To Flow (2)
106	85.41	100.36	Shut-in(2)
156	434.27	100.90	End Shut-in(2)
157	1260.97	100.75	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



DRILL STEM TEST REPORT

TOOL DIAGRAM

BOP West L.L.C
 Po Box 129 Wooster OH 44691
 ATTN: Ken Wallace

20-16-1 Saline
Van Meter#20-1
 Job Ticket: 16892 **DST#:2**
 Test Start: 2012.11.04 @ 11:45:00

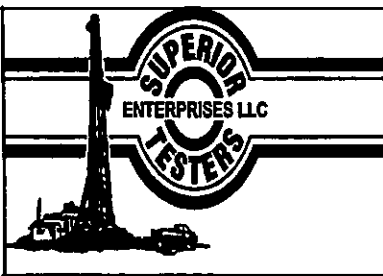
Tool Information

Drill Pipe:	Length: 2305.00 ft	Diameter: 3.80 inches	Volume: 32.33 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 33.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2563.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	92.00 ft			
Tool Length:	118.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in Tool	5.00			2542.00	
Hydraulic Tool	5.00			2547.00	
Jars	6.00			2553.00	
Packer	5.00			2558.00	26.00 Bottom Of Top Packer
Packer	5.00			2563.00	
Anchor	0.00			2563.00	
Change Over Sub	0.75			2563.75	
Drill Pipe	63.50			2627.25	
Change Over Sub	0.75			2628.00	
Anchor	22.00			2650.00	
Recorder	1.00	6731	inside	2651.00	
Recorder	1.00	8159	Outside	2652.00	
Bullnose	3.00			2655.00	92.00 Bottom Packers & Anchor

Total Tool Length: 118.00



DRILL STEM TEST REPORT

FLUID SUMMARY

BOP West L.L.C
 Po Box 129 Wooster OH 44691
 ATTN: Ken Wallace

20-16-1 Saline
Van Meter#20-1
 Job Ticket: 16892 **DST#:2**
 Test Start: 2012.11.04 @ 11:45:00

Mud and Cushion Information

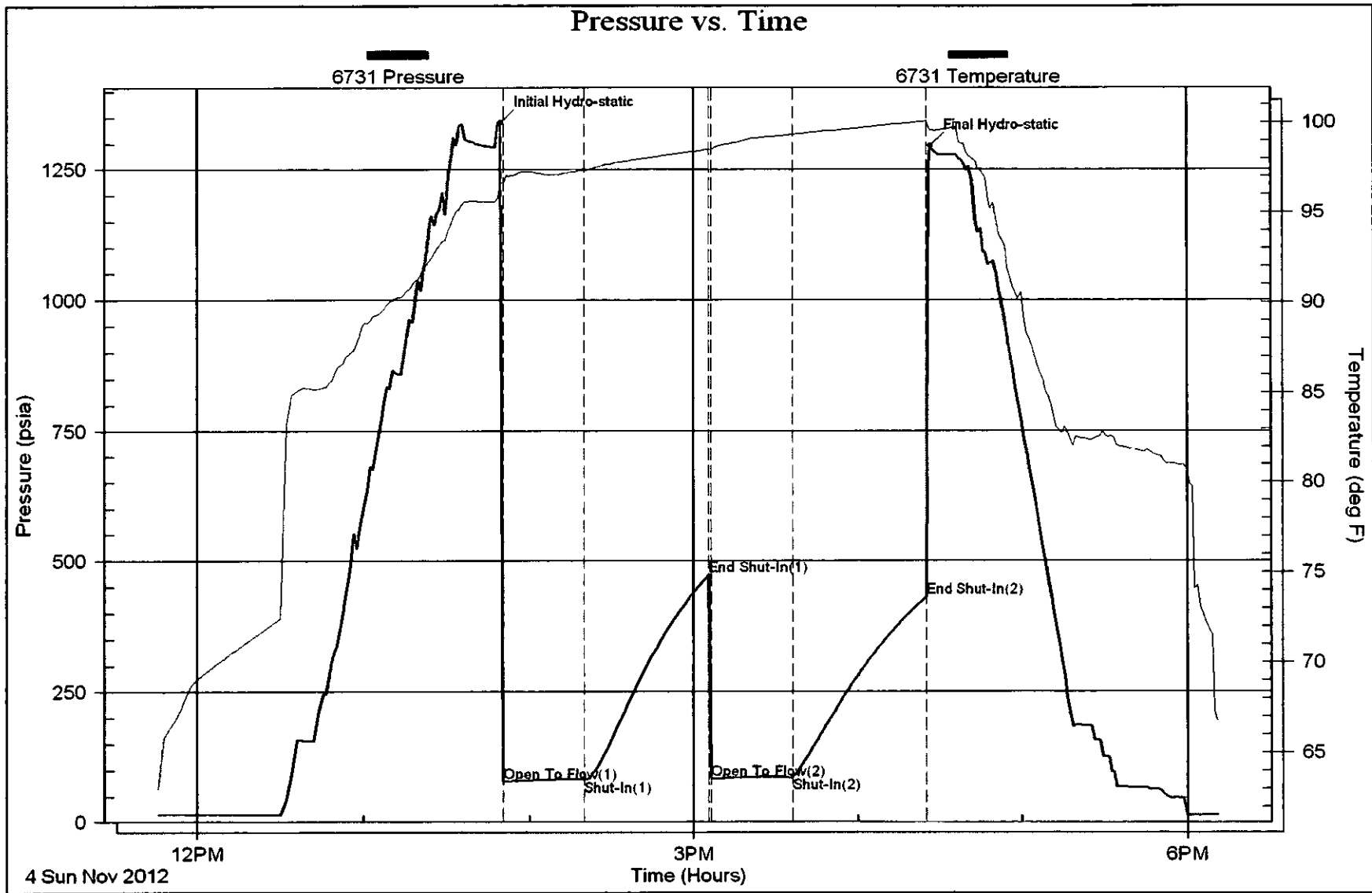
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 34.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.10 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

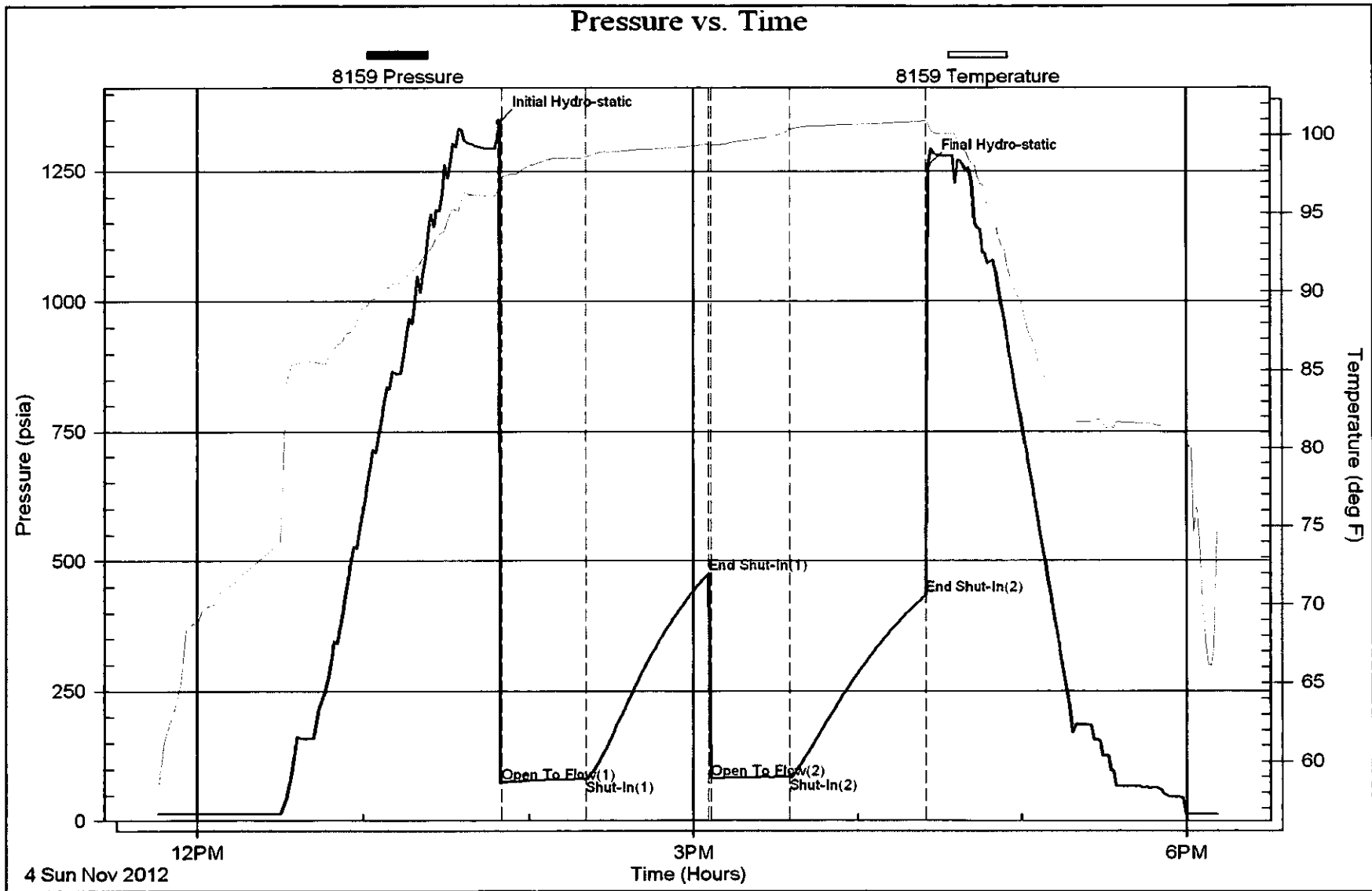
Recovery Information

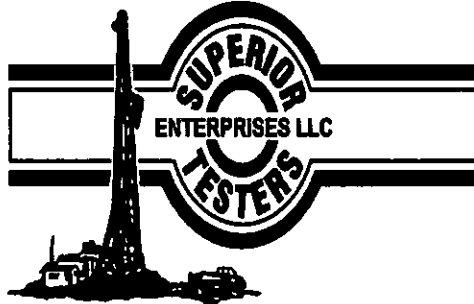
Recovery Table

Length ft	Description	Volume bbl
5.00	mud	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:







DRILL STEM TEST REPORT

Prepared For: **BOP West L.L.C**

Po Box 129 Wooster OH 44691

ATTN: Ken Wallace

Van Meter#20-1

20-16-1 Saline

Start Date: 2012.11.04 @ 23:15:00

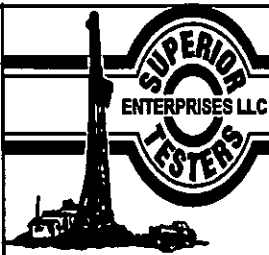
End Date: 2012.11.05 @ 05:49:00

Job Ticket #: 16893 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.11.05 @ 05:41:41

BOP West L.L.C 20-16-1 Saline Van Meter#20-1 DST # 3 Mississippi 2012.11.04



DRILL STEM TEST REPORT

BOP West L.L.C
 Po Box 129 Wooster OH 44691
 ATTN: Ken Wallace

20-16-1 Salline
Van Meter#20-1
 Job Ticket: 16893 **DST#: 3**
 Test Start: 2012.11.04 @ 23:15:00

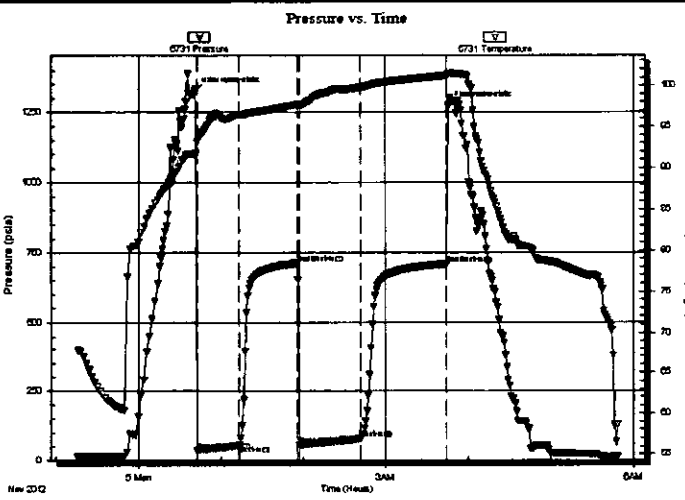
GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:42:30
 Time Test Ended: 05:49:00
 Interval: **2655.00 ft (KB) To 2664.00 ft (KB) (TVD)**
 Total Depth: **2664.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-240
 Reference Elevations: 1325.00 ft (KB)
 1319.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 6731

Press@RunDepth: 78.63 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.04 End Date: 2012.11.05 Last Calib.: 2012.11.05
 Start Time: 23:15:00 End Time: 05:49:00 Time On Btm: 2012.11.05 @ 00:41:00
 Time Off Btm: 2012.11.05 @ 03:45:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 3 inches into bucket w ater in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 3 inches into bucket w ater in 45 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

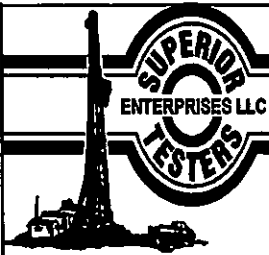
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1325.61	91.64	Initial Hydro-static
2	35.83	93.11	Open To Flow (1)
32	54.38	96.38	Shut-in(1)
75	712.12	97.61	End Shut-in(1)
77	57.72	97.54	Open To Flow (2)
121	78.63	99.74	Shut-in(2)
184	709.02	101.18	End Shut-in(2)
185	1274.36	101.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	clean oil 100%oil	0.02
60.00	mud oil 10%oil 90%mud	0.30
0.00	Gravity oil 42	0.00

Gas Rates

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



DRILL STEM TEST REPORT

BOP West L.L.C
 Po Box 129 Wooster OH 44691
 ATTN: Ken Wallace

20-16-1 Saline
Van Meter#20-1
 Job Ticket: 16893 **DST#: 3**
 Test Start: 2012.11.04 @ 23:15:00

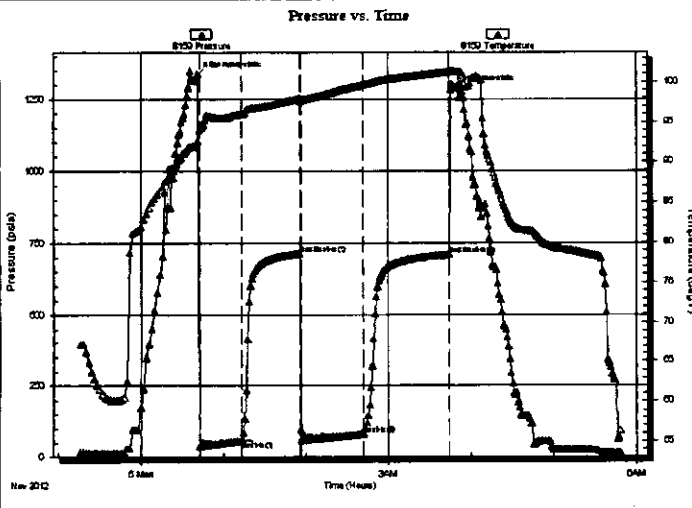
GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:42:30
 Time Test Ended: 05:49:00
 Interval: **2655.00 ft (KB) To 2664.00 ft (KB) (TVD)**
 Total Depth: **2664.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Great Bend-240
 Reference Elevations: 1325.00 ft (KB)
 1319.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 8159

Press@RunDepth: 710.16 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.11.04 End Date: 2012.11.05 Last Calib.: 2012.11.05
 Start Time: 23:15:00 End Time: 05:49:00 Time On Btm: 2012.11.05 @ 00:40:30
 Time Off Btm: 2012.11.05 @ 03:45:30

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 3 inches into bucket w ater in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Weak blow built 3 inches into bucket w ater in 45 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

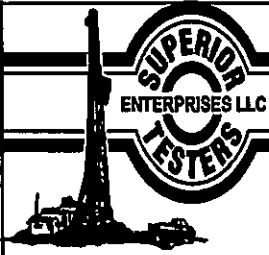
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1334.69	91.91	Initial Hydro-static
2	36.14	93.98	Open To Flow (1)
33	55.89	95.91	Shut-In(1)
76	713.39	97.88	End Shut-In(1)
77	58.99	97.74	Open To Flow (2)
122	79.72	99.64	Shut-In(2)
184	710.16	101.25	End Shut-In(2)
185	1284.66	101.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	clean oil 100%oil	0.02
60.00	mud oil 10%oil 90%mud	0.30
0.00	Gravity oil 42	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

BOP West L.L.C
 Po Box 129 Wooster OH 44691
 ATTN: Ken Wallace

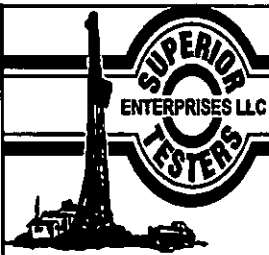
20-16-1 Saline
Van Meter#20-1
 Job Ticket: 16893 **DST#: 3**
 Test Start: 2012.11.04 @ 23:15:00

Tool Information

Drill Pipe:	Length: 2399.00 ft	Diameter: 3.80 inches	Volume: 33.65 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 34.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2655.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	35.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			2634.00	
Hydraulic Tool	5.00			2639.00	
Jars	6.00			2645.00	
Packer	5.00			2650.00	26.00 Bottom Of Top Packer
Packer	5.00			2655.00	
Anchor	4.00			2659.00	
Recorder	1.00	6731	Inside	2660.00	
Recorder	1.00	8159	Outside	2661.00	
Bullnose	3.00			2664.00	9.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

BOP West L.L.C
 Po Box 129 Wooster OH 44691
 ATTN: Ken Wallace

20-16-1 Saline
Van Meter#20-1
 Job Ticket: 16893 **DST#:3**
 Test Start: 2012.11.04 @ 23:15:00

Mud and Cushion Information

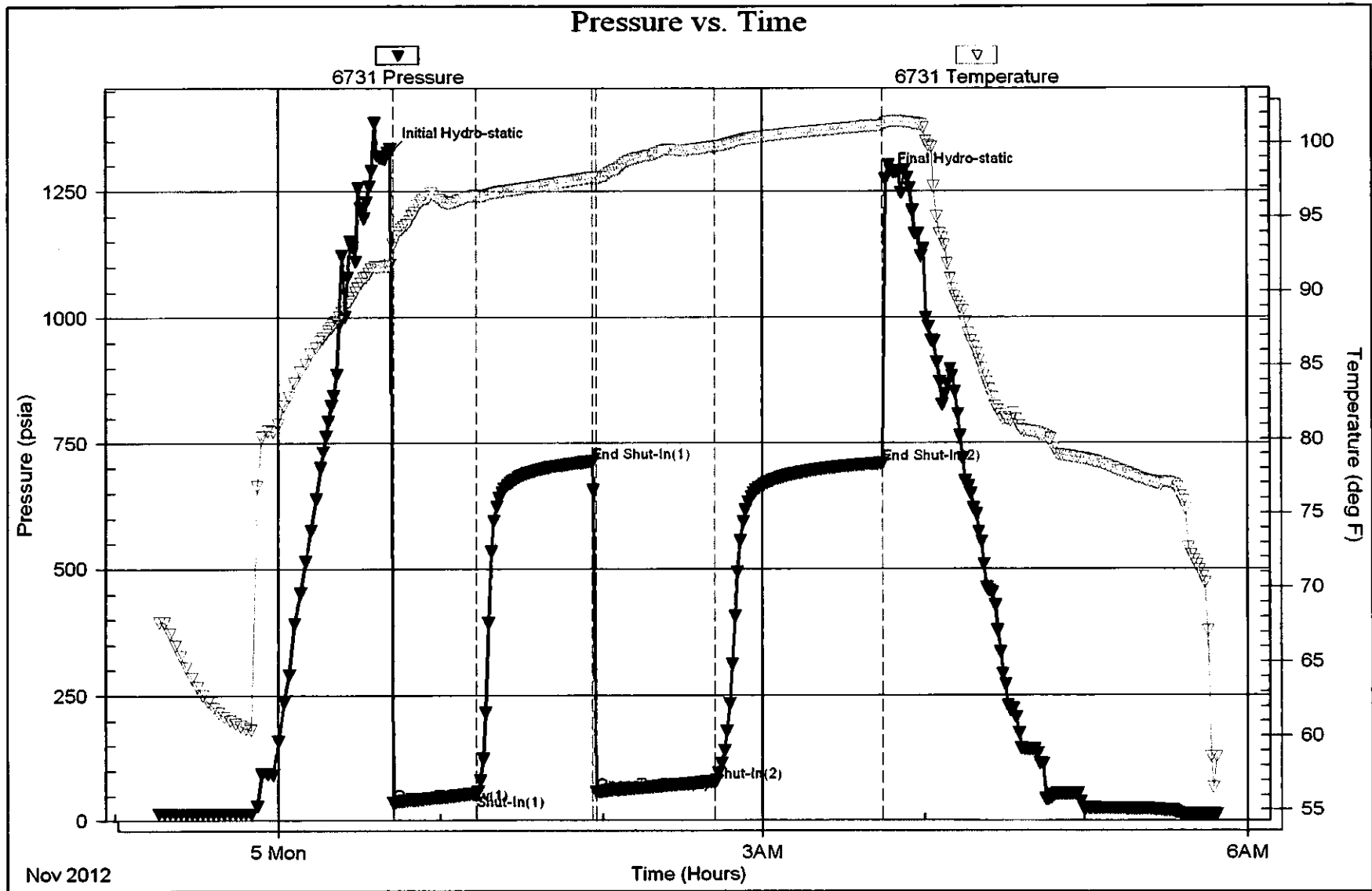
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 34.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.10 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

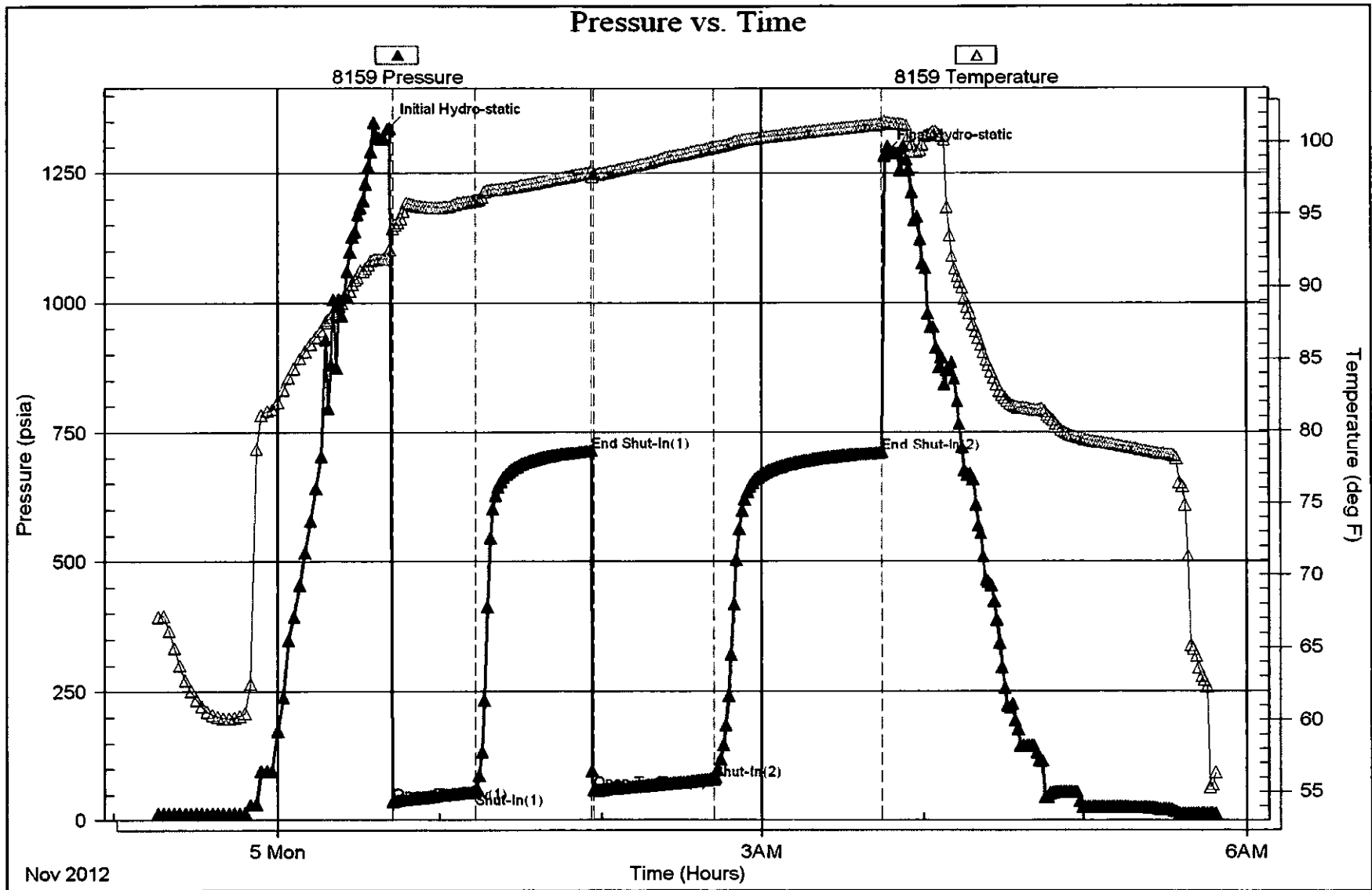
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	clean oil 100%oil	0.025
60.00	mud oil 10%oil 90%mud	0.295
0.00	Gravity oil 42	0.000

Total Length: 65.00 ft Total Volume: 0.320 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







CONSOLIDATED
Oil Well Services, LLC



TICKET NUMBER 35574

LOCATION Eureka, KS

FOREMAN Shannon Feik

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT API # 15-169-20342

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-30-12	1754	Van meter 20-1	20	16S	1W	Saline
CUSTOMER Bop West LLC			C+6 Drig			
MAILING ADDRESS P.O. Box 129						
CITY Wooster	STATE OH	ZIP CODE 44691	TRUCK # 445	DRIVER Dave G	TRUCK #	DRIVER
			667	Rick L		

JOB TYPE SP HOLE SIZE 12 1/4" HOLE DEPTH 219' CASING SIZE & WEIGHT 8 5/8"
 CASING DEPTH 222' K.B DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.5-15# SLURRY VOL 32 Bbl WATER gal/ek 6.5 CEMENT LEFT in CASING 15'
 DISPLACEMENT 13 Bbl DISPLACEMENT PSI 100 MIX PSI 100 RATE 5 BPM

REMARKS: Rig up to 8 5/8" casing, Break circulation w/ 10 Bbl water, mixed 140SKS Class A cement w/ 3% calcium 2% gel & 1/4# floccul/sk @ 14.5-15#/gal. Displace w/ 13 Bbl water & shut casing in. Good circulation @ all times & Bbl slurry to pit, Job complete.

"Thanks Shannon & crew"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL	
54015	1	PUMP CHARGE	825.00	825.00	
5406	100	MILEAGE	4.00	400.00	
11045	140 SKS	Class A cement	14.95	2093.00	
1102	38.5#	Calcium @ 3%	.74	282.30	
118B	26.4#	Gel @ 2%	.21	55.44	
1107	35#	Floccul @ 1/4#/sk	2.35	82.25	
5407A	6.92 Tons	Ton mileage bulk Truck	1.34	927.28	
			Subtotal	4675.27	
			7.3%	SALES TAX	181.18
				ESTIMATED TOTAL	4856.45

Rev'n 5737

204168

AUTHORIZATION [Signature]

TITLE _____

DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.