

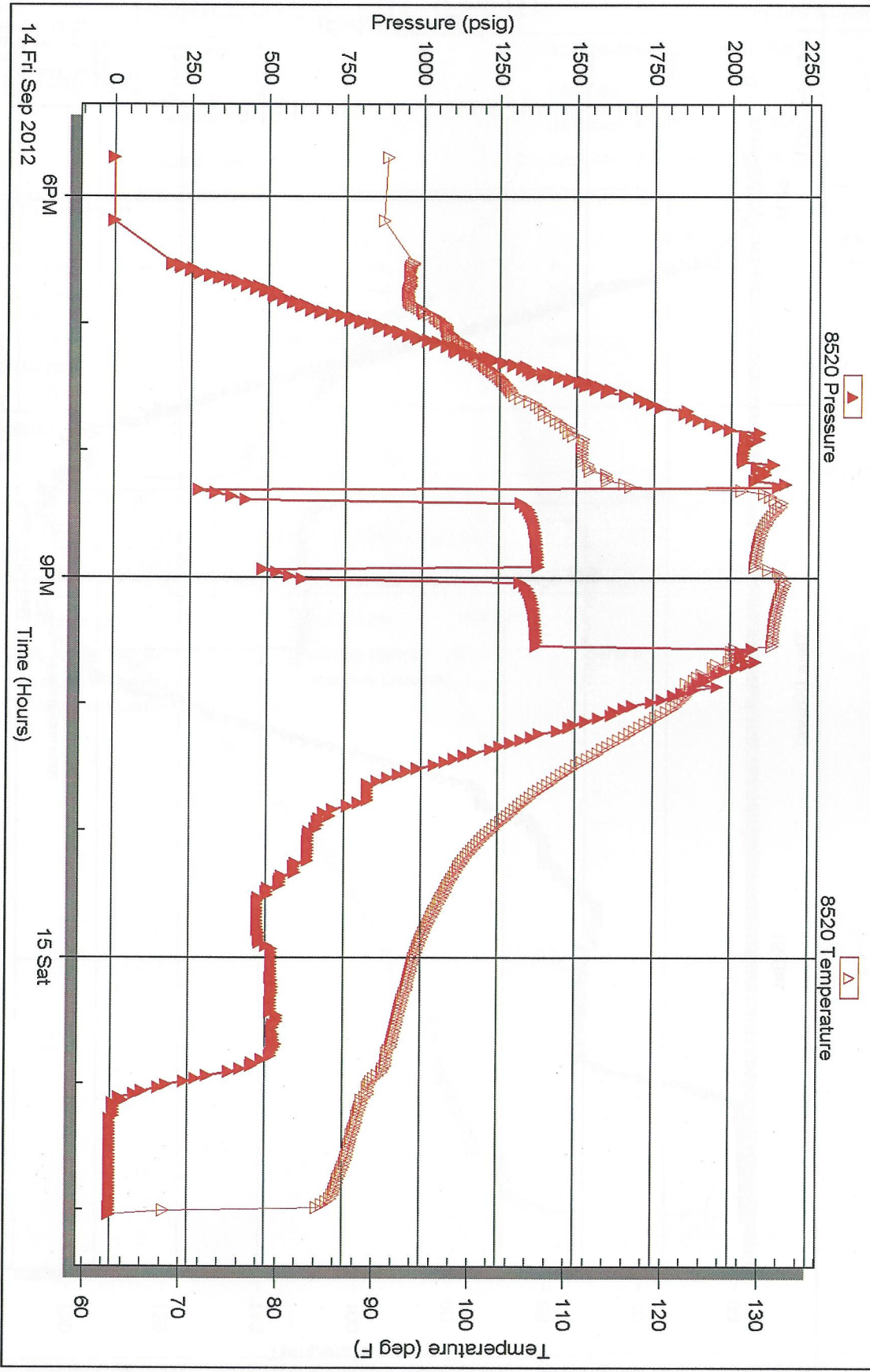
Serial #: 8520

Outside DK Operating, Inc.

Dnk #2

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 47928

Printed: 2012.09.18 @ 13:55:35

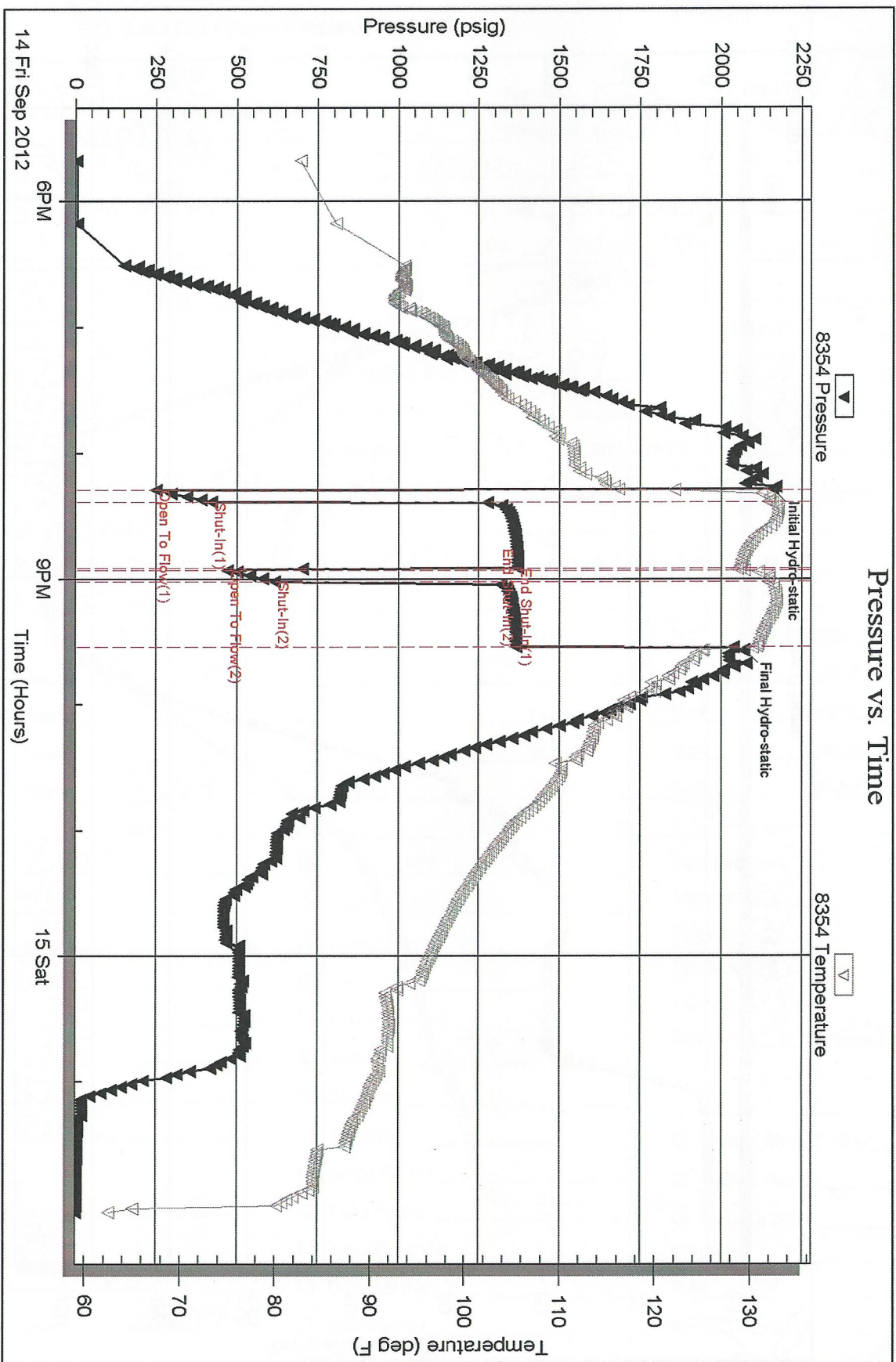
Serial #: 8354

Inside DK Operating, Inc.

Dink #2

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 47928

Printed: 2012.09.18 @ 13:55:34



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

DK Operating, Inc.

17-21s-22w Hodgeman, KS

24583 NW 208 Rd.
Jetmore, KS 67854

Dink #2

Job Ticket: 47928

DST#: 2

ATTN: Jason Alm

Test Start: 2012.09.14 @ 17:30:30

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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 13.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	10%Gas/60%Oil/15%Water/15%Mud	1.423
1143.00	40%Gas/60%Oil	16.033
0.00	126' G.I.P.	0.000

Total Length: 1323.00 ft Total Volume: 17.456 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Dropped Bar.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

DK Operating, Inc.

17-21s-22w Hodgeman, KS

24583 NW 208 Rd.
Jetmore, KS 67854

Dink #2

Job Ticket: 47928

DST#: 2

ATTN: Jason Alm

Test Start: 2012.09.14 @ 17:30:30

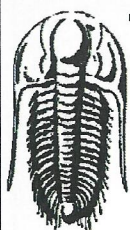
Tool Information

Drill Pipe:	Length: 4257.00 ft	Diameter: 3.80 inches	Volume: 59.71 bbl	Tool Weight: 3000.00 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 60.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4391.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	34.00 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			4364.00	
Shut In Tool	5.00			4369.00	
Hydraulic tool	5.00			4374.00	
Jars	5.00			4379.00	
Safety Joint	3.00			4382.00	
Packer	5.00			4387.00	28.00 Bottom Of Top Packer
Packer	4.00			4391.00	
Stubb	1.00			4392.00	
Perforations	1.00			4393.00	
Recorder	0.00	8354	Inside	4393.00	
Recorder	0.00	8520	Outside	4393.00	
Perforations	1.00			4394.00	
Bullnose	3.00			4397.00	6.00 Bottom Packers & Anchor

Total Tool Length: 34.00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

DK Operating, Inc.

17-21s-22w Hodgeman, KS

24583 NW 208 Rd.
Jetmore, KS 67854

Dink #2

Job Ticket: 47928

DST#: 2

ATTN: Jason Alm

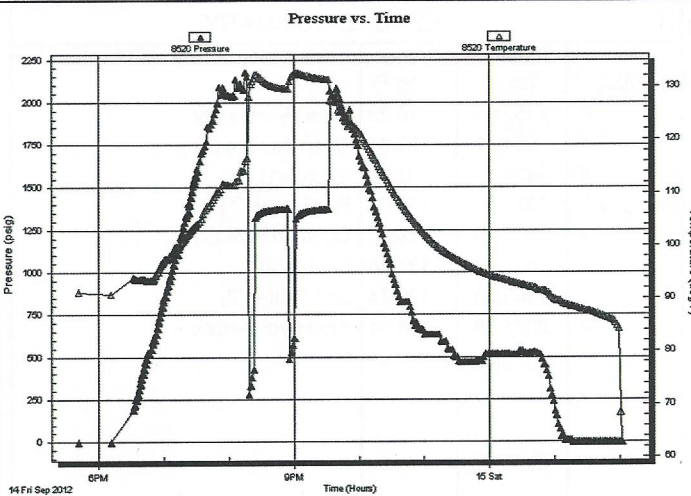
Test Start: 2012.09.14 @ 17:30:30

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:17:30
 Time Test Ended: 02:03:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Rash
 Unit No: 38
 Interval: **4391.00 ft (KB) To 4397.00 ft (KB) (TVD)**
 Reference Elevations: 2285.00 ft (KB)
 Total Depth: 4397.00 ft (KB) (TVD) 2275.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8520 Outside
 Press@RunDepth: psig @ 4393.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.14 End Date: 2012.09.15 Last Calib.: 2012.09.15
 Start Time: 17:41:30 End Time: 02:03:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-Strong building blow . BOB in 30 seconds.
 ISI-Return @ 2 minutes. Built to 6 inches.
 FF-Strong building blow . BOB in 1 minute.
 FSI-Return @ 30 seconds. Built to 3 inches.



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

Recovery		
Length (ft)	Description	Volume (bbl)
180.00	10%Gas/60%Oil/15%Water/15%Mud	1.42
1143.00	40%Gas/60%Oil	16.03
0.00	126' G.I.P.	0.00

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

DK Operating, Inc.

17-21s-22w Hodgeman, KS

24583 NW 208 Rd.
Jetmore, KS 67854

Dink #2

Job Ticket: 47928

DST#: 2

ATTN: Jason Alm

Test Start: 2012.09.14 @ 17:30:30

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:17:30

Time Test Ended: 02:03:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: **4391.00 ft (KB) To 4397.00 ft (KB) (TVD)**

Total Depth: 4397.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2285.00 ft (KB)

2275.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8520 Outside

Press@RunDepth: psig @ 4393.00 ft (KB)

Start Date: 2012.09.14

End Date:

2012.09.15

Capacity: 8000.00 psig

Last Calib.:

2012.09.15

Start Time: 17:41:30

End Time:

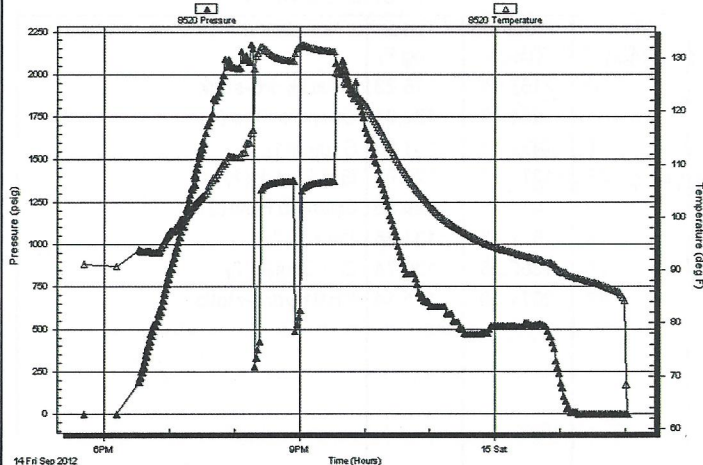
02:03:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Strong building blow . BOB in 30 seconds.
ISI-Return @ 2 minutes. Built to 6 inches.
FF-Strong building blow . BOB in 1 minute.
FSI-Return @ 30 seconds. Built to 3 inches.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
180.00	10%Gas/60%Oil/15%Water/15%Mud	1.42
1143.00	40%Gas/60%Oil	16.03
0.00	126' G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

DK Operating, Inc.
24583 NW 208 Rd.
Jetmore, KS 67854
ATTN: Jason Alm

17-21s-22w Hodgeman, KS

Dink #2

Job Ticket: 47928

DST#: 2

Test Start: 2012.09.14 @ 17:30:30

GENERAL INFORMATION:

Formation: **Mississippian**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:17:30
Time Test Ended: 02:03:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 38

Interval: **4391.00 ft (KB) To 4397.00 ft (KB) (TVD)**
Total Depth: 4397.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2285.00 ft (KB)
2275.00 ft (CF)
KB to GR/CF: 10.00 ft

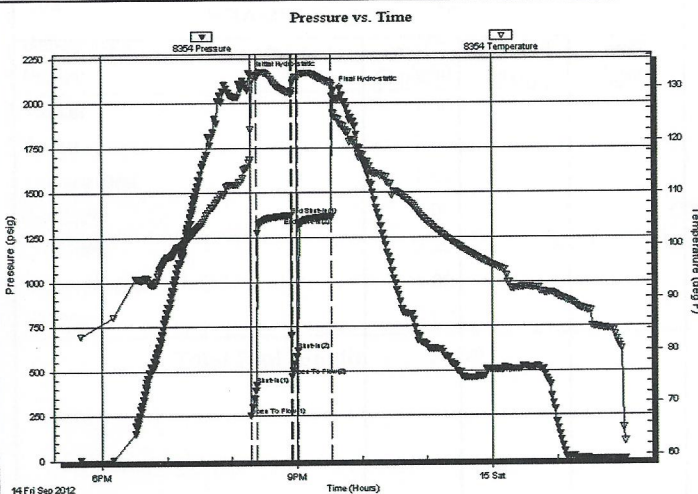
Serial #: 8354

Inside

Press@RunDepth: 617.08 psig @ 4393.00 ft (KB)
Start Date: 2012.09.14 End Date: 2012.09.15
Start Time: 17:40:30 End Time: 02:03:30

Capacity: 8000.00 psig
Last Calib.: 2012.09.15
Time On Btm: 2012.09.14 @ 20:17:00
Time Off Btm: 2012.09.14 @ 21:33:30

TEST COMMENT: IF-Strong building blow . BOB in 30 seconds.
ISI-Return @ 2 minutes. Built to 6 inches.
FF-Strong building blow . BOB in 1 minute.
FSI-Return @ 30 seconds. Built to 3 inches.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.65	116.23	Initial Hydro-static
1	251.47	122.01	Open To Flow (1)
6	422.13	131.90	Shut-In(1)
38	1371.67	128.91	End Shut-In(1)
39	471.75	129.36	Open To Flow (2)
44	617.08	131.88	Shut-In(2)
75	1365.36	130.74	End Shut-In(2)
77	2071.39	125.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	10%Gas/60%Oil/15%Water/15%Mud	1.42
1143.00	40%Gas/60%Oil	16.03
0.00	126' G.I.P.	0.00

Gas Rates

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