



DRILL STEM TEST REPORT

Prepared For: **CASTLE RESOURCES INC.**
BOX 87
SCHOENCHEN, KANSAS 67667-0087

ATTN: JERRY GREEN

WESSELER 33

19-17S-9W ELLSWORTH

Start Date: 2015.07.27 @ 23:02:00

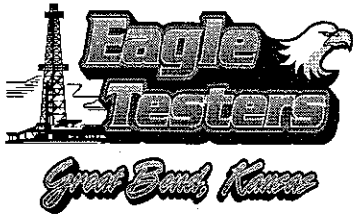
End Date: 2015.07.27 @ 00:00:00

Job Ticket #: 01048 DST #: 1

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2015.07.27 @ 03:01:03

CASTLE RESOURCES INC. 19-17S-9W ELLSWORTH WESSELER 33 DST # 1 ARBUCKLE 2015.07.27



DRILL STEM TEST REPORT

CASTLE RESOURCES INC.
 BOX 87
 SCHOENCHEN, KANSAS 67667-0087
 ATTN: JERRY GREEN

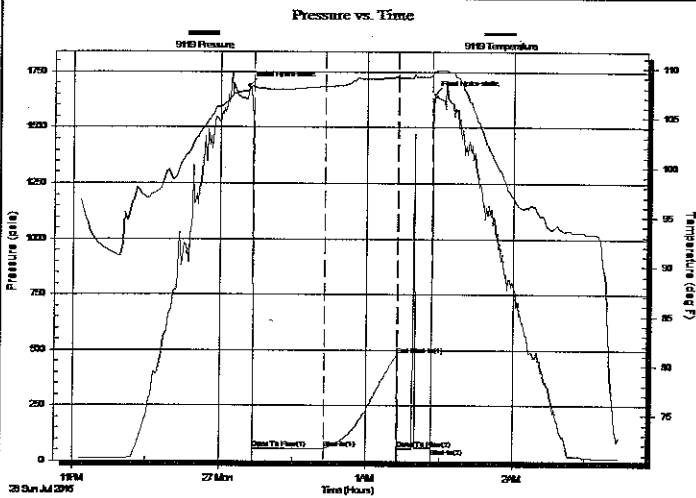
19-17S-9W ELLSWORTH
WESSELER 33
 Job Ticket: 01048 **DST#: 1**
 Test Start: 2015.07.27 @ 23:02:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No: 1
 Interval: **3168.00 ft (KB) To 3224.00 ft (KB) (TVD)**
 Total Depth: 3224.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 5.00 ft
 Reference Elevations: 1783.00 ft (KB)
 1778.00 ft (CF)

Serial #: 9119 Inside
 Press@RunDepth: 477.25 psia @ 3218.67 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.07.26 End Date: 2015.07.27 Last Calib.: 2015.07.27
 Start Time: 23:02:00 End Time: 02:44:00 Time On Btm: 2015.07.27 @ 00:11:30
 Time Off Btm: 2015.07.27 @ 01:27:30

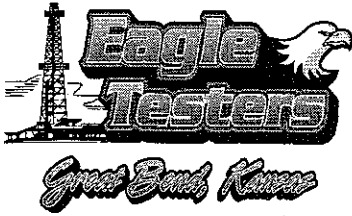
TEST COMMENT: 1ST OPENING 30 MINUTES-VERY WEAK SURFACE BLOW FOR 11 MINUTES AND DIED
 1ST SHUT-IN 30 MINUTES-NO BLOW BACK
 2ND OPENING 15 MINUTES-NO BLOW FLUSHED TOOL CAME OUT OF THE HOLE
 2ND SHUT-IN NONE TAKEN



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1688.62	107.76	Initial Hydro-static
2	53.83	108.00	Open To Flow (1)
32	57.53	108.16	Shut-In(1)
61	477.25	109.11	End Shut-In(1)
62	55.12	108.87	Open To Flow (2)
75	58.15	109.20	Shut-In(2)
76	1647.77	109.77	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	mud w with a good show of oil on top	0.21
0.00	of the tool	0.00

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



DRILL STEM TEST REPORT

CASTLE RESOURCES INC.

19-17S-9W ELLSWORTH

BOX 87
SCHOENCHEN, KANSAS 67667-0087

WESSELER 33

Job Ticket: 01048 DST#: 1

ATTN: JERRY GREEN

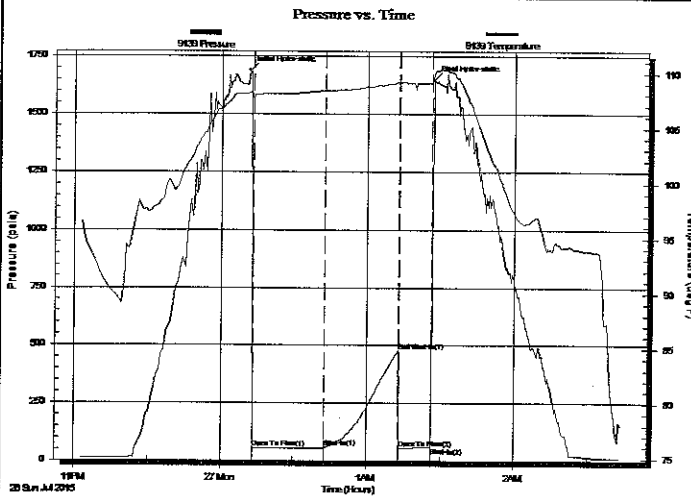
Test Start: 2015.07.27 @ 23:02:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3168.00 ft (KB) To 3224.00 ft (KB) (TVD)**
 Total Depth: 3224.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition:
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No: 1
 Reference Elevations: 1783.00 ft (KB)
 1778.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 9139 Outside
 Press@RunDepth: 477.28 psia @ 3218.67 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.07.26 End Date: 2015.07.27 Last Calib.: 2015.07.27
 Start Time: 23:02:00 End Time: 02:44:00 Time On Btm: 2015.07.27 @ 00:11:30
 Time Off Btm: 2015.07.27 @ 01:27:00

TEST COMMENT: 1ST OPENING 30 MINUTES-VERY WEAK SURFACE BLOW FOR 11 MINUTES AND DIED
 1ST SHUT-IN 30 MINUTES-NO BLOW BACK
 2ND OPENING 15 MINUTES-NO BLOW FLUSHED TOOL CAME OUT OF THE HOLE
 2ND SHUT-IN NONE TAKEN



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1690.48	108.20	Initial Hydro-static
2	51.99	107.53	Open To Flow (1)
32	56.78	108.37	Shut-In(1)
61	477.28	109.22	End Shut-In(1)
62	53.67	109.05	Open To Flow (2)
75	56.70	109.10	Shut-In(2)
76	1649.88	109.83	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	mud with a good show of oil on top	0.21
0.00	of the tool	0.00

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

CASTLE RESOURCES INC.

19-17S-9W ELLSWORTH

BOX 87
SCHOENCHEN, KANSAS 67667-0087

WESSELER 33

Job Ticket: 01048

DST#: 1

ATTN: JERRY GREEN

Test Start: 2015.07.27 @ 23:02:00

Tool Information

Drill Pipe:	Length: 3177.00 ft	Diameter: 3.80 inches	Volume: 44.56 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 32000.00 lb
			<u>Total Volume: 44.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 25000.00 lb
Depth to Top Packer:	3168.00 ft			Final 25000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.67 ft			
Tool Length:	75.67 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3153.00	
Hydraulic tool	5.00			3158.00	
Top Packer	5.00			3163.00	
Packer	5.00			3168.00	20.00 Bottom Of Top Packer
Anchor	8.00			3176.00	
Change Over Sub	0.75			3176.75	
Drill Pipe	31.17			3207.92	
Change Over Sub	0.75			3208.67	
Anchor	10.00			3218.67	
Recorder	0.00	9119	Inside	3218.67	
Recorder	0.00	9139	Outside	3218.67	
Bullnose	5.00			3223.67	55.67 Anchor Tool
Total Tool Length:	75.67				



DRILL STEM TEST REPORT

FLUID SUMMARY

CASTLE RESOURCES INC.

19-17S-9W ELLSWORTH

BOX 87
SCHOENCHEN, KANSAS 67667-0087

WESSELER 33

Job Ticket: 01048

DST#: 1

ATTN: JERRY GREEN

Test Start: 2015.07.27 @ 23:02:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 42.00 sec/qt
Water Loss: 18.40 in³
Resistivity: ohm.m
Salinity: 150009.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud w ith a good show of oil on top	0.210
0.00	of the tool	0.000

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial#:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 9119

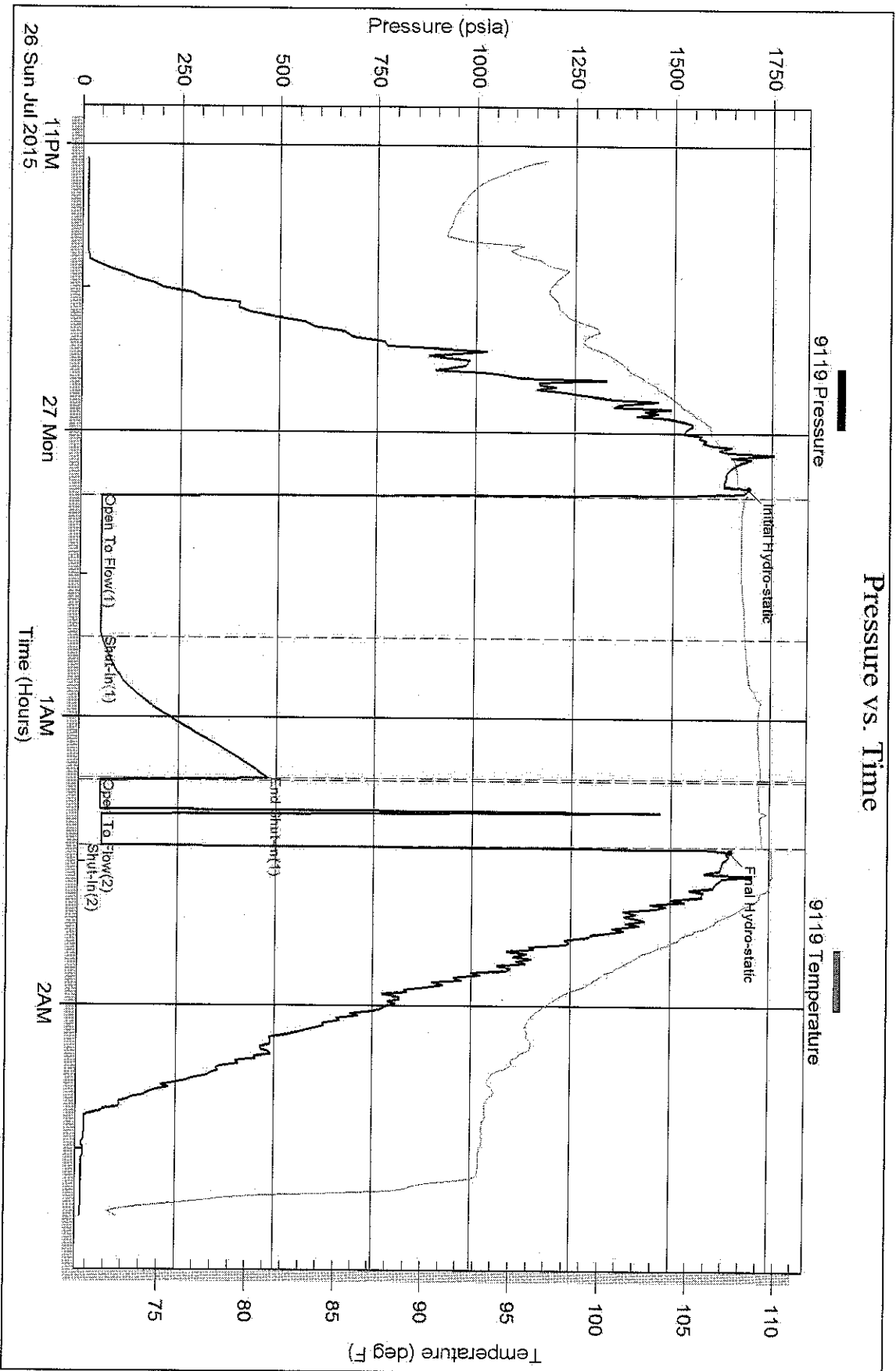
Inside

CASTLE RESOURCES INC.

WESSER ER 33

DST Test Number: 1

Pressure vs. Time



Eagle Testers

Ref. No: 01048

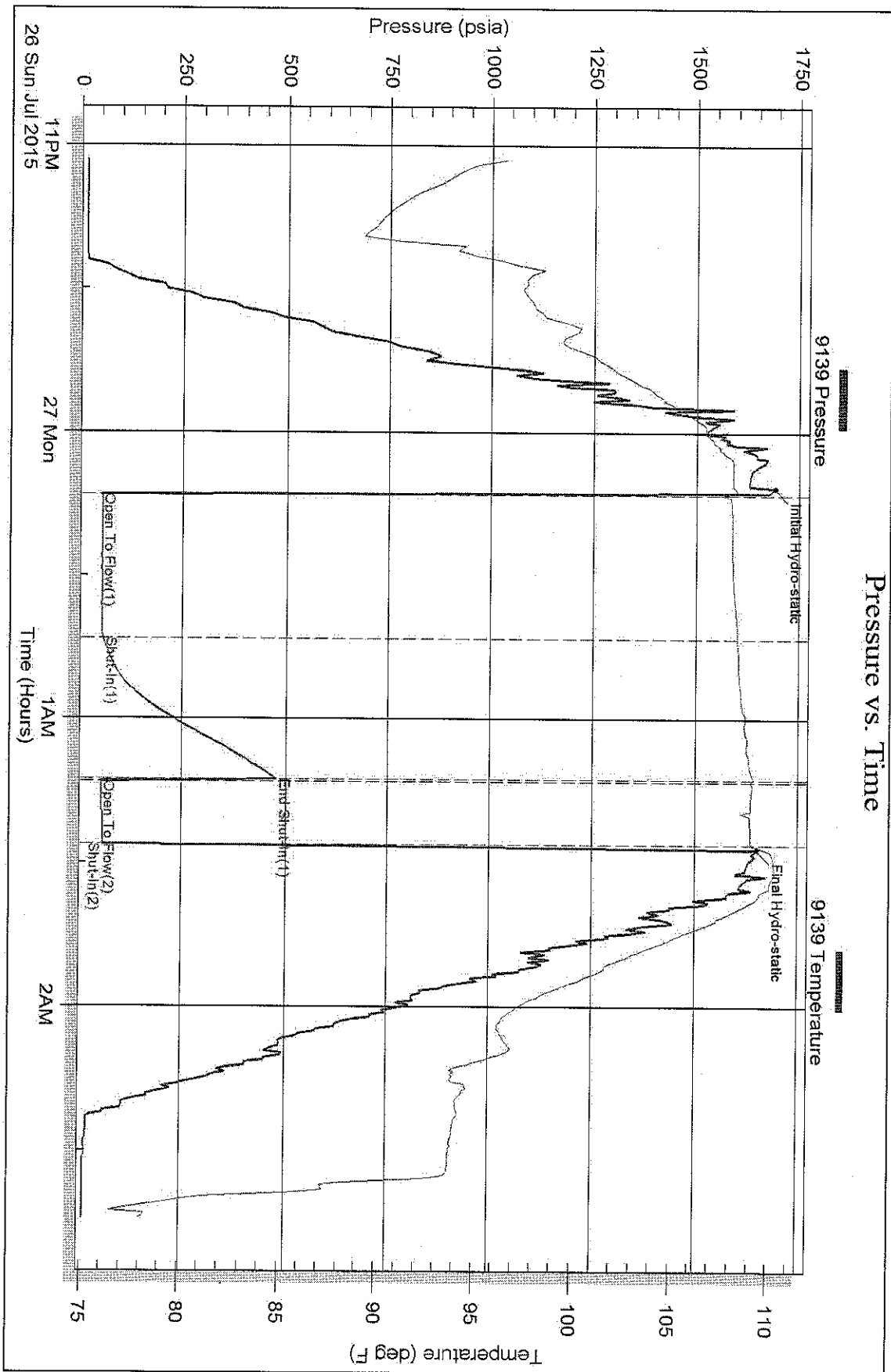
Printed: 2015.07.27 @ 03:01:05

Serial #: 9139

Outside CASTLE RESOURCES INC.

WESSLER 33

DST Test Number: 1



Eagle Testers

Ref. No: 01048

Printed: 2015.07.27 @ 03:01:05