

DRILL STEM TEST REPORT

Prepared For: **CASTLE RRESOURCES INC.**
BOX 87
SCHOENCHEN ,KANSAS 676567-0087

ATTN: JERRY GREEN

WESSELER 2

19-17S-17W ELLSWORTH

Start Date: 2015.07.06 @ 00:00:00

End Date: 2015.07.06 @ 00:00:00

Job Ticket #: 01043 DST #: 1

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

Printed: 2015.07.07 @ 09:02:06

CASTLE RESOURCES INC. 19-17S-17W ELLSWORTH WESSELER 2 DST # 1 ARBUCKLE 2015.07.06



DRILL STEM TEST REPORT

CASTLE RESOURCES INC.
 BOX 87
 SCHOENCHEN, KANSAS 676567-0087
 ATTN: JERRY GREEN

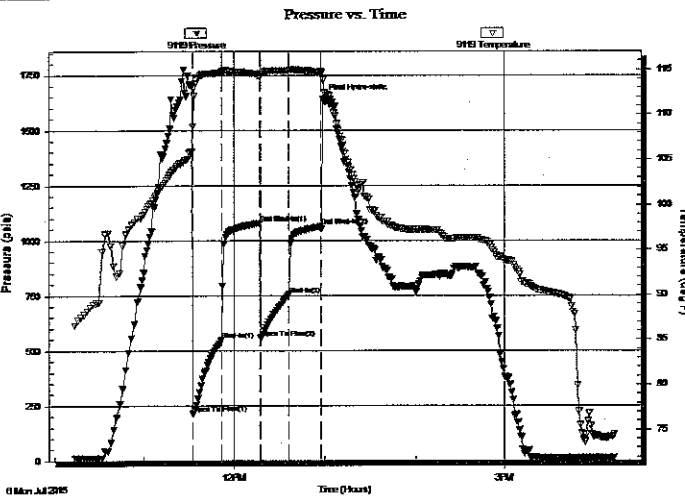
19-17S-17W ELLSWORTH
WESSELER 2
 Job Ticket: 01043 DST#: 1
 Test Start: 2015.07.06 @ 00:00:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3165.00 ft (KB) To 3218.00 ft (KB) (TVD)**
 Total Depth: 3218.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No:
 Reference Elevations: 1780.00 ft (KB)
 1775.00 ft (CF)
 KB to GRVCF: 5.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 1062.77 psia @ 3211.56 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.07.06 End Date: 2015.07.06 Last Calib.: 2015.07.06
 Start Time: 10:14:00 End Time: 16:13:30 Time On Btm: 2015.07.06 @ 11:32:00
 Time Off Btm: 2015.07.06 @ 12:59:00

TEST COMMENT: 1st open 20 minutes strong blow built to the bottom of a 5 gallon bucket in 1 minute
 1st shut-in 20 minutes weak blow back
 2nd opening 20 minutes strong blow built to the bottom of a 5 gallon bucket in 1 minute
 2nd shut-in 20 minutes weak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1706.40	105.84	Initial Hydro-static
1	214.08	108.64	Open To Flow (1)
20	545.80	114.71	Shut-In(1)
46	1078.18	114.24	End Shut-In(1)
46	556.23	114.28	Open To Flow (2)
65	754.79	114.87	Shut-In(2)
86	1062.77	114.67	End Shut-In(2)
87	1642.64	113.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GAS IN THE PIPE	0.00
1680.00	MUDDY GASSY FROTHY OIL	23.57
60.00	MUDDY WATER WITH A SHOW OF OIL	0.84
0.00	2% GAS 2% OIL 25% MUD 71 % WATER	0.00
60.00	SLIGHTLY MUDDY WATER WITH TRACE OIL	0.84
0.00	TRACE OIL 4% MUD 96% WATER	0.00

Gas Rates

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



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WESSELER 2

Job Ticket: 01043 DST#: 1

ATTN: JERRY GREEN

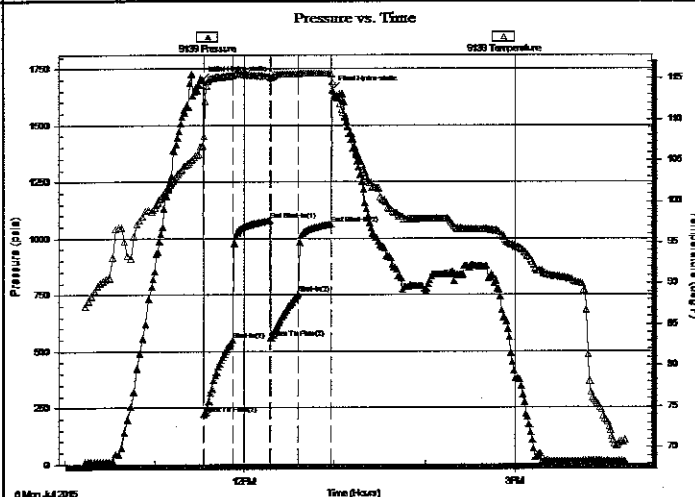
Test Start: 2015.07.06 @ 00:00:00

GENERAL INFORMATION:

Formation: **ARBUCKLE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
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 Interval: **3165.00 ft (KB) To 3218.00 ft (KB) (TVD)**
 Total Depth: 3218.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: GENE BUDIG
 Unit No:
 Reference Elevations: 1780.00 ft (KB)
 1775.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 9139 Outside
 Press@RunDepth: 1063.90 psia @ 3211.56 ft (KB) Capacity: 5000.00 psia
 Start Date: 2015.07.06 End Date: 2015.07.06 Last Calib.: 2015.07.06
 Start Time: 10:14:00 End Time: 16:13:30 Time On Btm: 2015.07.06 @ 11:31:00
 Time Off Btm: 2015.07.06 @ 12:59:00

TEST COMMENT: 1st open 20 minutes strong blow built to the bottom of a 5 gallon bucket in 1 minute
 1st shut-in 20 minutes weak blow back
 2nd opening 20 minutes strong blow built to the bottom of a 5 gallon bucket in 1 minute
 2nd shut-in 20 minutes weak blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1701.38	106.71	Initial Hydro-static
2	220.96	107.97	Open To Flow (1)
21	550.80	115.36	Shut-In(1)
47	1079.58	115.20	End Shut-In(1)
47	557.74	115.00	Open To Flow (2)
65	754.83	115.50	Shut-In(2)
88	1063.90	115.55	End Shut-In(2)
88	1655.52	114.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GAS IN THE PIPE	0.00
1680.00	MUDDY GASSY FROTHY OIL	23.57
60.00	MUDDY WATER WITH A SHOW OF OIL	0.84
0.00	2%GAS 2%OIL 25%MUD 71 %WATER	0.00
60.00	SLIGHTLY MUDDY WATER WITH TRACE OIL	0.84
0.00	TRACE OIL 4%MUD 96%WATER	0.00

Gas Rates

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



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TOOL DIAGRAM

CASTLE RRESOURCES INC.

19-17S-17W ELLSWORTH

BOX 87
SCHOENCHEN ,KANSAS 676567-0087

WESSELER 2

Job Ticket: 01043 DST#: 1

ATTN: JERRY GREEN

Test Start: 2015.07.06 @ 00:00:00

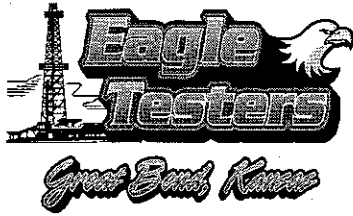
Tool Information

Drill Pipe:	Length: 3148.00 ft	Diameter: 3.80 inches	Volume: 44.16 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:	39000.00 lb
			<u>Total Volume: 44.16 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	34000.00 lb
Depth to Top Packer:	3165.00 ft			Final	36000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	51.56 ft				
Tool Length:	71.56 ft				
Number of Packers:	2	Diameter:	inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3150.00	
Hydraulic tool	5.00			3155.00	
Top Packer	5.00			3160.00	
Packer	5.00			3165.00	20.00 Bottom Of Top Packer
Anchor	5.00			3170.00	
Change Over Sub	0.75			3170.75	
Drill Pipe	30.06			3200.81	
Change Over Sub	0.75			3201.56	
Anchor	10.00			3211.56	
Recorder	0.00	9119	Inside	3211.56	
Recorder	0.00	9139	Outside	3211.56	
Bullnose	5.00			3216.56	51.56 Anchor Tool

Total Tool Length: 71.56



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FLUID SUMMARY

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Job Ticket: 01043

DST#: 1

ATTN: JERRY GREEN

Test Start: 2015.07.06 @ 00:00:00

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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.79 in ³	Gas Cushion Type:		
Resistivity: 23000.00 ohm.m	Gas Cushion Pressure: psia		
Salinity: 23000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GAS IN THE PIPE	0.000
1680.00	MUDDY GASSY FROTHY OIL	23.566
60.00	MUDDY WATER WITH A SHOW OF OIL	0.842
0.00	2%GAS 2%OIL 25%MUD 71 %WATER	0.000
60.00	SLIGHTLY MUDDY WATER WITH TRACE OF (0.842
0.00	TRACE OIL 4%MUD 96%WA TER	0.000
0.00	CHLORIDES 18,000	0.000

Total Length: 1800.00 ft Total Volume: 25.250 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: