



DRILL STEM TEST REPORT

Prepared For: **Globe Operatingb Inc..**

P.O. Box 12
Great Bend ,Kansas 67530

ATTN: Keith Reavis

CDK Holdings #1

16-24s-14w Stafford

Start Date: 2018.03.19 @ 09:34:00

End Date: 2018.03.19 @ 00:00:00

Job Ticket #: 01112 DST #: 3

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

Printed: 2018.03.19 @ 16:28:45



DRILL STEM TEST REPORT

Globe Operatingb Inc..
 P.O. Box 12
 Great Bend ,Kansas 67530
 ATTN: Keith Reavis

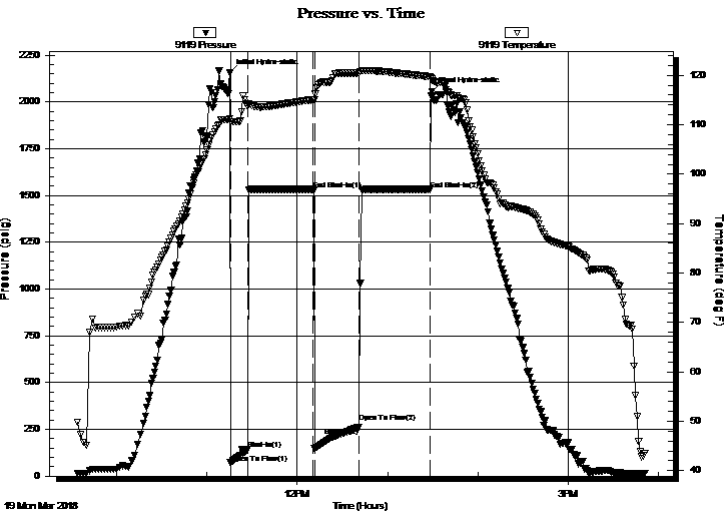
16-24s-14w Stafford
CDK Holdings #1
 Job Ticket: 01112 **DST#: 3**
 Test Start: 2018.03.19 @ 09:34:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:16:00 Tester: Gene Budig
 Time Test Ended: 00:00:00 Unit No: 1
 Interval: **4218.00 ft (KB) To 4287.00 ft (KB) (TVD)** Reference Elevations: 1983.00 ft (KB)
 Total Depth: 4287.00 ft (KB) (TVD) 1975.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 9119 Inside
 Press@RunDepth: 1533.13 psig @ 4282.28 ft (KB) Capacity: 5000.00 psig
 Start Date: 2018.03.19 End Date: 2018.03.19 Last Calib.: 2018.03.19
 Start Time: 09:33:00 End Time: 15:51:00 Time On Btm: 2018.03.19 @ 11:15:00
 Time Off Btm: 2018.03.19 @ 13:29:30

TEST COMMENT: 1st Opening 10 Minutes fair blow built to 9 inches into the water
 1st Shut-In 45 minutes no blow back
 2nd Opening 30 Minutes Fair Blow built to the bottom of the bucket in 18 Minutes
 2nd Shut-In 45 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.34	111.17	Initial Hydro-static
1	71.54	110.59	Open To Flow (1)
12	141.88	113.73	Shut-In(1)
56	1533.24	115.08	End Shut-In(1)
57	145.39	115.06	Open To Flow (2)
86	262.98	120.41	Shut-In(2)
134	1533.13	119.74	End Shut-In(2)
135	2054.17	119.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clean Oil	0.07
60.00	slightly oil cut mud 5%Oil 95% Mud	0.84
120.00	oil cut muddy w ater20%Oil30%Mud50%w1.68r	
120.00	oil cut muddy w ater15%oil15%mud70%w1.68	
120.00	oil cut muddy w ater10%Oil10%mud80%w1.68r	
0.00	chlorides 18,000	0.00

Gas Rates

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



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CDK Holdings #1

Job Ticket: 01112

DST#: 3

ATTN: Keith Reavis

Test Start: 2018.03.19 @ 09:34:00

GENERAL INFORMATION:

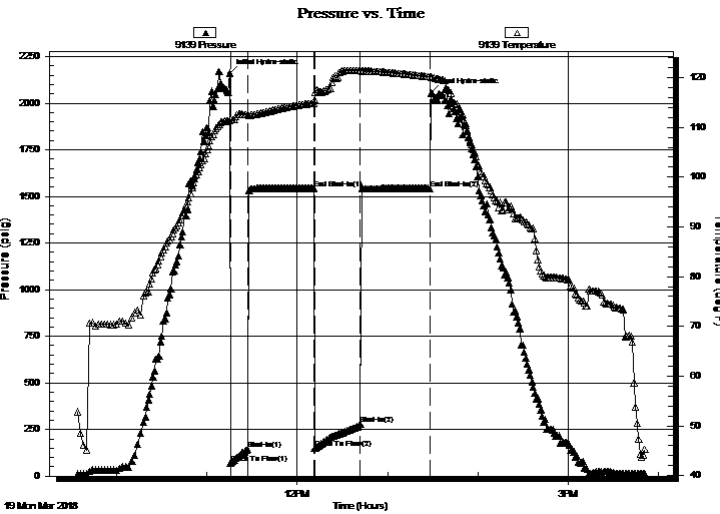
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:16:00
 Tester: Gene Budig
 Time Test Ended: 00:00:00
 Unit No: 1
 Interval: **4218.00 ft (KB) To 4287.00 ft (KB) (TVD)**
 Reference Elevations: 1983.00 ft (KB)
 Total Depth: 4287.00 ft (KB) (TVD)
 1975.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 9139

Outside

Press@RunDepth: 1542.60 psig @ 4282.28 ft (KB) Capacity: 5000.00 psig
 Start Date: 2018.03.19 End Date: 2018.03.19 Last Calib.: 2018.03.19
 Start Time: 09:33:00 End Time: 15:51:29 Time On Btm: 2018.03.19 @ 11:15:00
 Time Off Btm: 2018.03.19 @ 13:29:00

TEST COMMENT: 1st Opening 10 Minutes fair blow built to 9 inches into the water
 1st Shut-In 45 minutes no blow back
 2nd Opening 30 Minutes Fair Blow built to the bottom of the bucket in 18 Minutes
 2nd Shut-In 45 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2160.49	111.37	Initial Hydro-static
1	68.77	111.65	Open To Flow (1)
12	143.08	112.61	Shut-In(1)
56	1543.00	114.85	End Shut-In(1)
57	147.43	115.61	Open To Flow (2)
87	278.71	121.43	Shut-In(2)
134	1542.60	120.19	End Shut-In(2)
134	2054.19	120.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clean Oil	0.07
60.00	slightly oil cut mud 5%Oil 95% Mud	0.84
120.00	oil cut muddy w ater20%Oil30%Mud50%w	1.68r
120.00	oil cut muddy w ater15%oil15%mud70%w	1.68
120.00	oil cut muddy w atter10%Oil10%mud80%w	1.68r
0.00	chlorides 18,000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Globe Operatingb Inc..

16-24s-14w Stafford

P.O. Box 12
Great Bend ,Kansas 67530

CDK Holdings #1

Job Ticket: 01112

DST#: 3

ATTN: Keith Reavis

Test Start: 2018.03.19 @ 09:34:00

Tool Information

Drill Pipe:	Length: 4216.00 ft	Diameter: 3.80 inches	Volume: 59.14 bbl	Tool Weight: 20009.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 59.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4218.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.28 ft			
Tool Length:	99.28 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4193.00	
Hydraulic tool	5.00			4198.00	
Jars	5.00			4203.00	
Safety Joint	5.00			4208.00	
Packer	5.00			4213.00	30.00 Bottom Of Top Packer
Packer	5.00		Fluid	4218.00	
Anchor	5.00			4223.00	
Change Over Sub	0.75			4223.75	
Drill Pipe	31.78			4255.53	
Change Over Sub	0.75		Inside	4256.28	
Anchor	26.00			4282.28	
Recorder	0.00	9119	Inside	4282.28	
Recorder	0.00	9139	Outside	4282.28	
Bullnose	5.00			4287.28	69.28 Bottom Packers & Anchor

Total Tool Length: 99.28



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FLUID SUMMARY

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Job Ticket: 01112

DST#: 3

ATTN: Keith Reavis

Test Start: 2018.03.19 @ 09:34:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 64.00 sec/qt
Water Loss: 10.40 in³
Resistivity: ohm.m
Salinity: 11000.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Clean Oil	0.070
60.00	slightly oil cut mud 5%Oil 95% Mud	0.842
120.00	oil cut muddy w ater20%Oil30%Mud50%w ater	1.683
120.00	oil cut muddy w ater15%oil15%mud70%w ater	1.683
120.00	oil cut muddy w ater10%Oil10%mud80%Wate	1.683
0.00	chlorides 18,000	0.000

Total Length: 425.00 ft Total Volume: 5.961 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

