



DRILL STEM TEST REPORT

Prepared For: **GLOBE OPERATING INC.**

P.O. BOX 12
GREAT BEND , KANSAS 67530

ATTN: JASON ALM

DEWERFF 2

12-22S-12W STAFFORD

Start Date: 2017.03.13 @ 06:30:00

End Date: 2017.03.13 @ 01:11:00

Job Ticket #: 01160 DST #: 4

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

Printed: 2017.03.15 @ 11:56:42



DRILL STEM TEST REPORT

GLOBE OPERATING INC.

12-22S-12W STAFFORD

P.O. BOX 12
GREAT BEND, KANSAS 67530

DEWERFF 2

Job Ticket: 01160

DST#: 4

ATTN: JASON ALM

Test Start: 2017.03.13 @ 06:30:00

GENERAL INFORMATION:

Formation: **VIOLA**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:11:00

Time Test Ended: 01:11:00

Test Type: Conventional Straddle (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3580.00 ft (KB) To 3659.00 ft (KB) (TVD)**

Reference Elevations: 1876.00 ft (KB)

Total Depth: 3845.00 ft (KB) (TVD)

1868.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **91716** Outside

Press@RunDepth: 1219.36 psia @ 3658.03 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.03.13

End Date:

2017.03.14

Last Calib.:

2017.03.14

Start Time: 18:30:30

End Time:

01:15:30

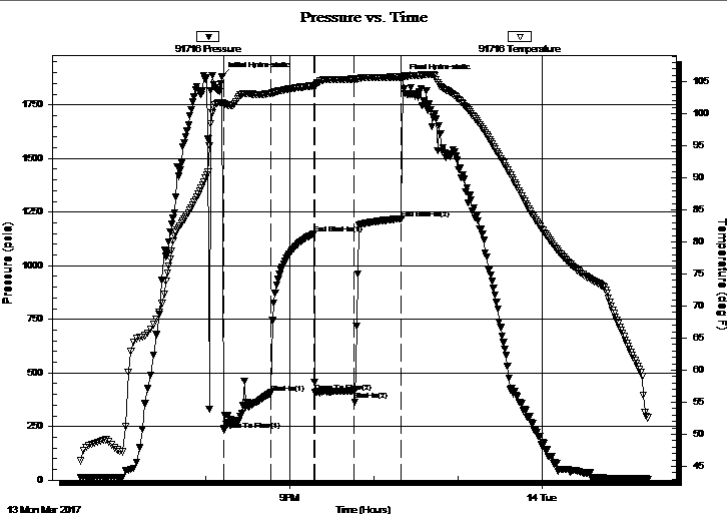
Time On Btm:

2017.03.13 @ 20:11:30

Time Off Btm:

2017.03.13 @ 22:20:30

TEST COMMENT: 1ST OPENING 30 MINUTES FAIR BLOW BUILT TO THE BOTTOM POFA 5 GALLON BUCKET IN 11 MINUTES
1ST SHUT-IN 30 MINUTES NO BLOW BACK
2ND OPENING 30 MINUTES WEAK BLOW BUILT TO 2 INCHES DECREASED AND DIED IN 28 MINUTES
2ND SHUT-IN 30 MINUTES NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1882.53	101.68	Initial Hydro-static
2	234.63	101.50	Open To Flow (1)
35	407.09	103.19	Shut-In(1)
66	1148.42	104.35	End Shut-In(1)
67	408.58	104.37	Open To Flow (2)
95	413.75	105.40	Shut-In(2)
128	1219.36	105.72	End Shut-In(2)
129	1872.01	105.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	mud	2.81
180.00	muddy water 50 mud 50 water	2.52
180.00	muddy water 65 mud 35 water	2.52
400.00	muddy water 40 mud 60 water	5.61
0.00	chlorides 38000	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

GLOBE OPERATING INC.

12-22S-12W STAFFORD

P.O. BOX 12
GREAT BEND, KANSAS 67530

DEWERFF 2

Job Ticket: 01160

DST#: 4

ATTN: JASON ALM

Test Start: 2017.03.13 @ 06:30:00

GENERAL INFORMATION:

Formation: **VIOLA**

Deviated: No Whipstock: ft (KB)

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Time Test Ended: 01:11:00

Test Type: Conventional Straddle (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3580.00 ft (KB) To 3659.00 ft (KB) (TVD)**

Reference Elevations: 1876.00 ft (KB)

Total Depth: 3845.00 ft (KB) (TVD)

1868.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9139 Outside

Press@RunDepth: psia @ 3844.44 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.03.13

End Date:

2017.03.14

Last Calib.:

2017.03.14

Start Time: 18:15:00

End Time:

01:17:30

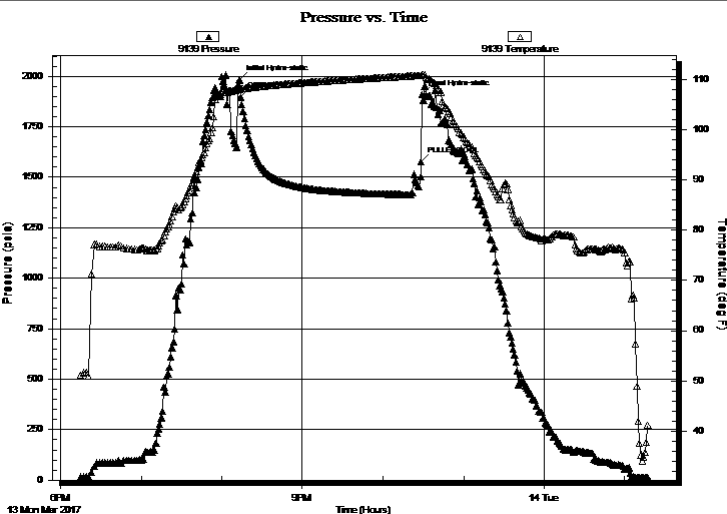
Time On Btm:

2017.03.13 @ 20:13:30

Time Off Btm:

2017.03.13 @ 22:29:00

TEST COMMENT: 1ST OPENING 30 MINUTES FAIR BLOW BUILT TO THE BOTTOM POF A 5 GALLON BUCKET IN 11 MINUTES
1ST SHUT-IN 30 MINUTES NO BLOW BACK
2ND OPENING 30 MINUTES WEAK BLOW BUILT TO 2 INCHES DECREASED AND DIED IN 28 MINUTES
2ND SHUT-IN 30 MINUTES NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1981.30	108.10	Initial Hydro-static
1	1897.40	108.11	OPRND TOOL
135	1575.46	110.82	PULLED TOOL
136	1908.15	110.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	mud	2.81
180.00	muddy water 50 mud 50 water	2.52
180.00	muddy water 65 mud 35 water	2.52
400.00	muddy water 40 mud 60 water	5.61
0.00	chlorides 38000	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

GLOBE OPERATING INC.

12-22S-12W STAFFORD

P.O. BOX 12
GREAT BEND, KANSAS 67530

DEWERFF 2

Job Ticket: 01160

DST#: 4

ATTN: JASON ALM

Test Start: 2017.03.13 @ 06:30:00

GENERAL INFORMATION:

Formation: **VIOLA**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:11:00

Time Test Ended: 01:11:00

Test Type: Conventional Straddle (Initial)

Tester: GENE BUDIG

Unit No: 1

Interval: **3580.00 ft (KB) To 3659.00 ft (KB) (TVD)**

Reference Elevations: 1876.00 ft (KB)

Total Depth: 3845.00 ft (KB) (TVD)

1868.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 9119

Inside

Press@RunDepth: 1221.01 psia @ 3658.03 ft (KB)

Capacity: 5000.00 psia

Start Date: 2017.03.13

End Date:

2017.03.14

Last Calib.: 2017.03.15

Start Time: 17:48:01

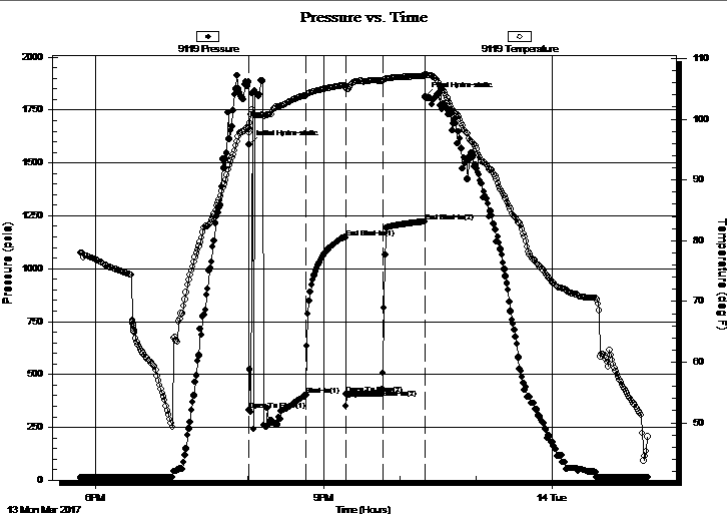
End Time:

01:15:26

Time On Btm: 2017.03.13 @ 20:01:02

Time Off Btm: 2017.03.13 @ 22:19:47

TEST COMMENT: 1ST OPENING 30 MINUTES FAIR BLOW BUILT TO THE BOTTOM POFA 5 GALLON BUCKET IN 11 MINUTES
1ST SHUT-IN 30 MINUTES NO BLOW BACK
2ND OPENING 30 MINUTES WEAK BLOW BUILT TO 2 INCHES DECREASED AND DIED IN 28 MINUTES
2ND SHUT-IN 30 MINUTES NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1585.92	98.38	Initial Hydro-static
1	330.23	97.78	Open To Flow (1)
46	402.37	103.84	Shut-In(1)
76	1146.61	105.57	End Shut-In(1)
77	406.07	105.30	Open To Flow (2)
106	430.87	106.31	Shut-In(2)
139	1221.01	107.09	End Shut-In(2)
139	1811.96	107.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	mud	2.81
180.00	muddy water 50 mud 50 water	2.52
180.00	muddy water 65 mud 35 water	2.52
400.00	muddy water 40 mud 60 water	5.61
0.00	chlorides 38000	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

GLOBE OPERATING INC.

12-22S-12W STAFFORD

P.O. BOX 12
GREAT BEND, KANSAS 67530

DEWERFF 2

Job Ticket: 01160

DST#: 4

ATTN: JASON ALM

Test Start: 2017.03.13 @ 06:30:00

Tool Information

Drill Pipe:	Length:	3590.00 ft	Diameter:	3.80 inches	Volume:	50.36 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:	68000.00 lb	
						Total Volume:	50.36 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft					String Weight: Initial	49000.00 lb		
Depth to Top Packer:	3580.00 ft					Final	49000.00 lb		
Depth to Bottom Packer:	3659.03 ft								
Interval between Packers:	79.03 ft								
Tool Length:	289.44 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			3565.00	
Hydraulic tool	5.00			3570.00	
Top Packer	5.00			3575.00	
Packer	5.00			3580.00	20.00 Bottom Of Top Packer
Change Over Sub	0.75			3580.75	
Drill Pipe	62.53			3643.28	
Change Over Sub	0.75			3644.03	
Perforations	14.00			3658.03	
Recorder	0.00	9119	Inside	3658.03	
Recorder	0.00	91716	Outside	3658.03	
Blank Off Sub	1.00			3659.03	79.03 Tool Interval
Packer	5.00			3664.03	
Anchor	22.00		Inside	3686.03	
Change Over Sub	0.75		Outside	3686.78	
Drill Pipe	156.91			3843.69	
Change Over Sub	0.75			3844.44	
Recorder	0.00	9139	Outside	3844.44	
Bullnose	5.00			3849.44	190.41 Bottom Packers & Anchor

Total Tool Length: 289.44



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FLUID SUMMARY

GLOBE OPERATING INC.

12-22S-12W STAFFORD

P.O. BOX 12
GREAT BEND, KANSAS 67530

DEWERFF 2

Job Ticket: 01160

DST#: 4

ATTN: JASON ALM

Test Start: 2017.03.13 @ 06:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 61.00 sec/qt

Water Loss: 9.98 in³

Resistivity: ohm.m

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psia

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	mud	2.805
180.00	muddy w ater 50 mud 50 w ater	2.525
180.00	muddy w ater 65 mud 35 w ater	2.525
400.00	muddy w ater 40 mud 60 w ate	5.611
0.00	chlorides 38000	0.000

Total Length: 960.00 ft

Total Volume: 13.466 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

