



**Company: Murfin Drilling
Company, Inc**
Lease: Dauntless #15-1

SEC: 1 TWN: 9S RNG: 56W
County: LINCOLN
State: Colorado
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 25
Elevation: 5541 GL
Field Name: Wildcat
Pool: Wildcat
Job Number: 97

DATE
December
09
2017

DST #1

**Formation: Fort
Scott**

**Test Interval: 7722 -
7770'**

Total Depth: 7770'

Time On: 16:31 12/09

Time Off: 04:09 12/10

Time On Bottom: 21:30 12/09

Time Off Bottom: 12:37 12/11

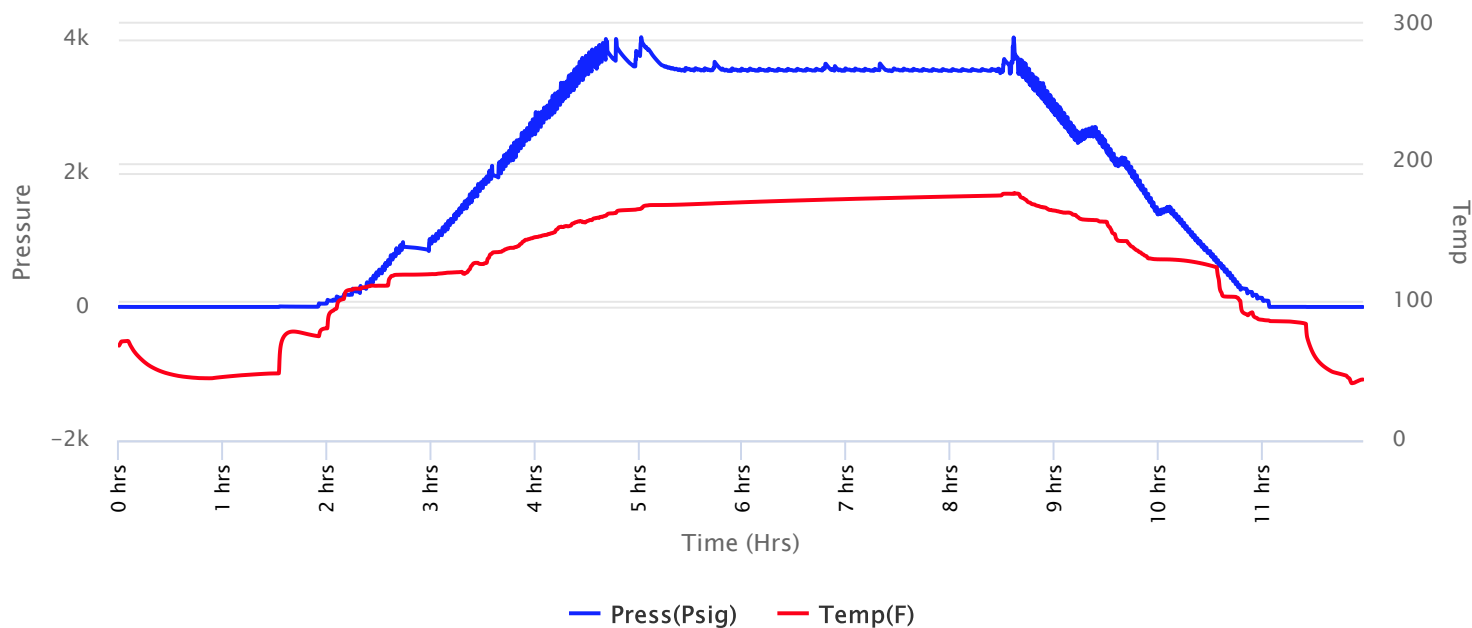
Electronic Volume
Estimate:
0'

1st Open
Minutes: 30
0" at 30 min

1st Close
Minutes: 60
0" at 60 min

2nd Open
Minutes: 30
0" at 30 min

2nd Close
Minutes: 60
0" at 60 min





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Time On Bottom: 21:30 12/09

Time Off Bottom: 12:37 12/11

Recovered

Foot

BBLS

Description of Fluid

Gas %

Oil %

Water %

Mud %

Total Recovered: 0 ft

Total Barrels Recovered: 0

Reversed Out

NO

Initial Hydrostatic Pressure

0

PSI

Initial Flow

0

PSI

Initial Closed in Pressure

0

PSI

Final Flow Pressure

0

PSI

Final Closed in Pressure

0

PSI

Final Hydrostatic Pressure

0

PSI

Temperature

0

°F

Pressure Change Initial

0.0

%

Close / Final Close



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Time On Bottom: 21:30 12/09

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REMARKS:

Invalid Test Do To Possible

1. Dog Leg up hole hindering the weight for being transferred to hydraulic tool.

2. Hydraulic Tool Malfunction

Hydraulic Tool was check before Dst 2 and is in working condition.



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DST #1 **Formation: Fort Scott** **Test Interval: 7722 - 7770'** **Total Depth: 7770'**
Time On: 16:31 12/09 Time Off: 04:09 12/10
Time On Bottom: 21:30 12/09 Time Off Bottom: 12:37 12/11

Down Hole Makeup

Heads Up: 13.7 FT	Packer 1: 7716.5 FT
Drill Pipe: 7145.19 FT <i>ID-3 1/2</i>	Packer 2: 7722 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 7705.42 FT
Collars: 556.94 FT <i>ID-2 1/4</i>	Bottom Recorder: 7760 FT
Test Tool: 34.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
	Surface Choke: 1"
	Bottom Choke: 5/8"
Total Anchor: 48	
<u>Anchor Makeup</u>	
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: .5 FT	

Drill Pipe: (in anchor): 31.5 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 11 FT

4 1/2-FH



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**Formation: Fort
Scott**

**Test Interval: 7722 -
7770'**

Total Depth: 7770'

Time On: 16:31 12/09

Time Off: 04:09 12/10

Time On Bottom: 21:30 12/09

Time Off Bottom: 12:37 12/11

Mud Properties

Mud Type: Chem

Weight: 9.4

Viscosity: 71

Filtrate: .8

Chlorides: 720 ppm



DATE
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09
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Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



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DATE
December
10
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DST #2 **Formation: Fort Scott** **Test Interval: 7722 - 7770'** **Total Depth: 7770'**
Time On: 05:21 12/10 Time Off: 15:45 12/10
Time On Bottom: 09:15 12/10 Time Off Bottom: 10:35 12/10

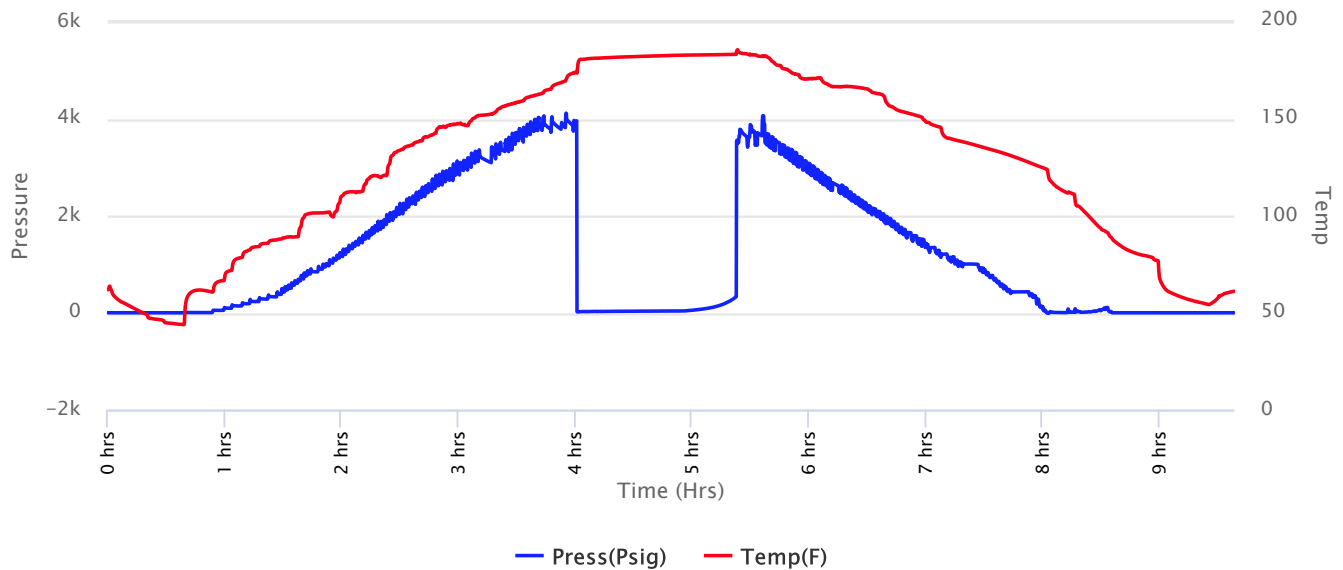
Electronic Volume
Estimate:
134'

1st Open
Minutes: 20
2.1" at 20 min

1st Close
Minutes: 15
0" at 15 min

2nd Open
N/A

2nd Close
N/A





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DST #2 **Formation: Fort Scott** **Test Interval: 7722 - 7770'** **Total Depth: 7770'**
Time On: 05:21 12/10 Time Off: 15:45 12/10
Time On Bottom: 09:15 12/10 Time Off Bottom: 10:35 12/10

Recovered

<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
181	0.89052	G	100	0	0	0
5	0.0246	OSM	0	0	0	100

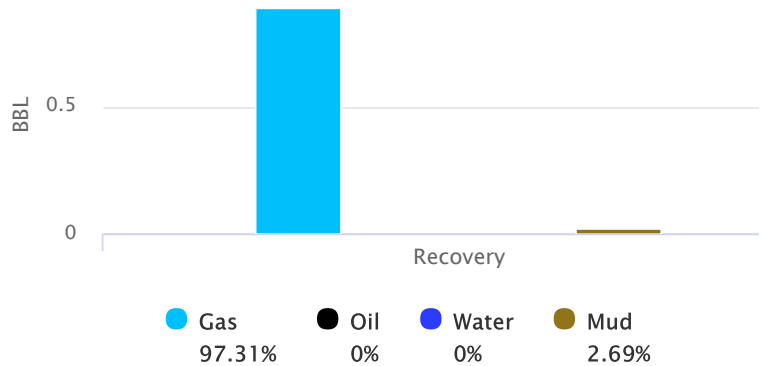
Total Recovered: 186 ft

Total Barrels Recovered: 0.91512

Reversed Out
NO

Initial Hydrostatic Pressure	3784	PSI
Initial Flow	21 to 38	PSI
Initial Closed in Pressure	329	PSI
Final Flow Pressure	0	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	3775	PSI
Temperature	184	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance





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Company, Inc - Rig 25
Elevation: 5541 GL
Field Name: Wildcat
Pool: Wildcat
Job Number: 97

DATE December 10 2017
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DST #2	Formation: Fort Scott	Test Interval: 7722 - 7770'	Total Depth: 7770'
	Time On: 05:21 12/10	Time Off: 15:45 12/10	
	Time On Bottom: 09:15 12/10	Time Off Bottom: 10:35 12/10	

REMARKS:

1O. 1/4" Blow. Built to 2 inches in 30 mins
1C. NOBB

Pulled Test do to Risk of being Stuck and Turning Issues.

Tool Sample: 3% O 97 % M



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December
10
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Time On: 05:21 12/10 Time Off: 15:45 12/10
Time On Bottom: 09:15 12/10 Time Off Bottom: 10:35 12/10

Down Hole Makeup

Heads Up: 13.7 FT	Packer 1: 7716.5 FT
Drill Pipe: 7145.19 FT <i>ID-3 1/2</i>	Packer 2: 7722 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 7705.42 FT
Collars: 556.94 FT <i>ID-2 1/4</i>	Bottom Recorder: 7760 FT
Test Tool: 34.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 48	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: .5 FT	
Drill Pipe: (in anchor): 31.5 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 11 FT <i>4 1/2-FH</i>	



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Elevation: 5541 GL
Field Name: Wildcat
Pool: Wildcat
Job Number: 97

DATE
December
10
2017

DST #2 **Formation: Fort Scott** **Test Interval: 7722 - 7770'** **Total Depth: 7770'**
Time On: 05:21 12/10 Time Off: 15:45 12/10
Time On Bottom: 09:15 12/10 Time Off Bottom: 10:35 12/10

Gas Volume Report

1st Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------



SEC: 1 TWN: 9S RNG: 56W
County: LINCOLN
State: Colorado
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 25
Elevation: 5541 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 97

December

11

2017

DST #3

**Formation: Lower
Ft. Scott**

Test Interval: 7764 - 7810'

Total Depth: 7810'

Time On: 09:15 12/11

Time Off: 21:08 12/11

Time On Bottom: 14:09 12/11

Time Off Bottom: 17:09 12/11

Recovered

Foot

6

BBLS

0.02952

Description of Fluid

M

Gas %

0

Oil %

0

Water %

0

Mud %

100

Total Recovered: 6 ft

Total Barrels Recovered: 0.02952

Reversed Out
NO

Recovery at a glance

Initial Hydrostatic Pressure	3779	PSI
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Initial Flow	19 to 22	PSI
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Initial Closed in Pressure 196 PSI

Final Flow Pressure 25 to 24 PSI

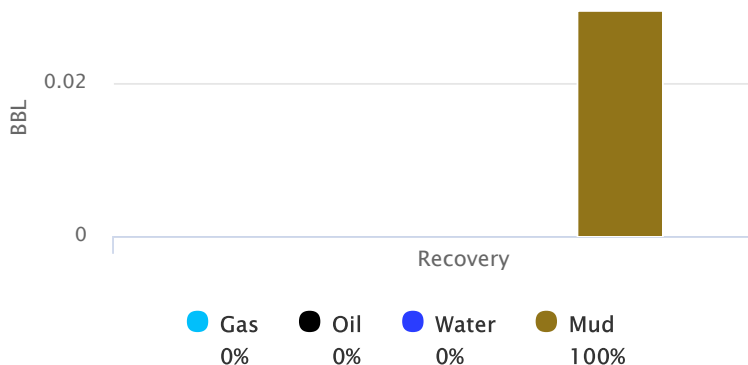
Final Closed in Pressure 59 PSI

Final Hydrostatic Pressure	3774	PSI
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Temperature 178 °F

Pressure Change Initial	69.8	%
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Close / Final Close





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County: LINCOLN
State: Colorado
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 25
Elevation: 5541 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 97

DATE December 11 2017
--

DST #3	Formation: Lower Ft. Scott	Test Interval: 7764 - 7810'	Total Depth: 7810'
	Time On: 09:15 12/11	Time Off: 21:08 12/11	
	Time On Bottom: 14:09 12/11	Time Off Bottom: 17:09 12/11	

REMARKS:

1O. WSB Built to 1/4" Blow. Blow Died 20 mins in
1C. NOBB
2O. NOBB
2C. NO Blow

Tool Sample: 100% M

Diesel in Bucket



SEC: 1 TWN: 9S RNG: 56W
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Job Number: 97

DST #3	Formation: Lower Ft. Scott	Test Interval: 7764 - 7810'	Total Depth: 7810'
	Time On: 09:15 12/11	Time Off: 21:08 12/11	
	Time On Bottom: 14:09 12/11	Time Off Bottom: 17:09 12/11	

Mud Properties

Mud Type: Chem **Weight:** 9.4 **Viscosity:** 71 **Filtrate:** .8 **Chlorides:** 720 ppm

1st Open				2nd Open			
Time	Orifice	PSI	MCF/D	Time	Orifice	PSI	MCF/D



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County: LINCOLN
State: Colorado
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Elevation: 5541 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 97

DATE
December
12
2017

DST #4 **Formation: Breezy Hill Lime** **Test Interval: 7828 - 7860'** **Total Depth: 7860'**
Time On: 10:55 12/12 Time Off: 19:53 12/12
Time On Bottom: 15:00 12/12 Time Off Bottom: 15:45 12/12

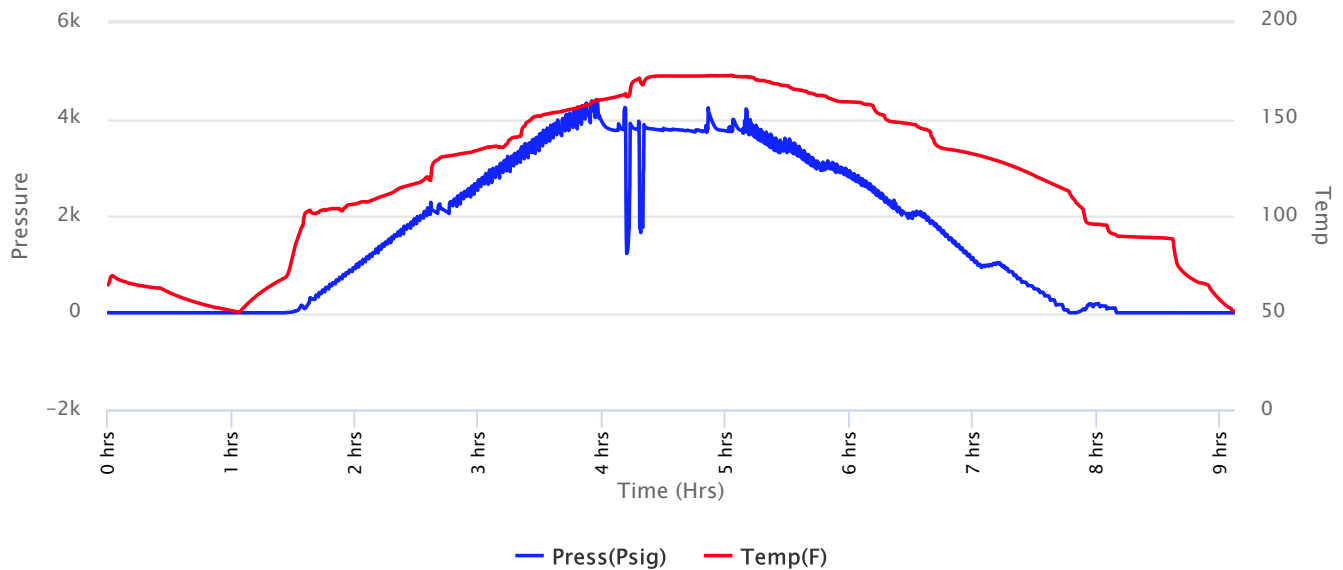
Electronic Volume
Estimate:
0'

1st Open
N/A

1st Close
N/A

2nd Open
N/A

2nd Close
N/A





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County: LINCOLN
State: Colorado
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Company, Inc - Rig 25
Elevation: 5541 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 97

DATE
December
12
2017

DST #4 **Formation: Breezy Hill Lime** **Test Interval: 7828 - 7860'** **Total Depth: 7860'**
Time On: 10:55 12/12 Time Off: 19:53 12/12
Time On Bottom: 15:00 12/12 Time Off Bottom: 15:45 12/12

Recovered

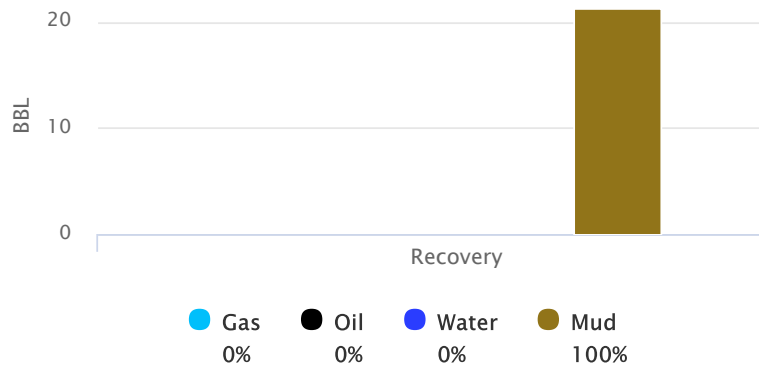
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1860	21.2755199	M	0	0	0	100

Total Recovered: 1860 ft

Total Barrels Recovered: 21.2755199

Reversed Out
NO

Recovery at a glance



Initial Hydrostatic Pressure	3761	PSI
Initial Flow	0	PSI
Initial Closed in Pressure	0	PSI
Final Flow Pressure	0	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	3742	PSI
Temperature	173	°F
Pressure Change Initial Close / Final Close	0.0	%



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County: LINCOLN
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Company, Inc - Rig 25
Elevation: 5541 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 97

DATE December 12 2017
--

DST #4	Formation: Breezy Hill Lime	Test Interval: 7828 - 7860'	Total Depth: 7860'
	Time On: 10:55 12/12	Time Off: 19:53 12/12	
	Time On Bottom: 15:00 12/12	Time Off Bottom: 15:45 12/12	

REMARKS:

MISS RUN:

Packer Failure or fracture in formation.

Tool Sample: 100 % M

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Elevation: 5541 GL
Field Name: Wildcat
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Job Number: 97

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2017

DST #4	Formation: Breezy Hill Lime	Test Interval: 7828 - 7860'	Total Depth: 7860'
Time On: 10:55 12/12		Time Off: 19:53 12/12	
Time On Bottom: 15:00 12/12		Time Off Bottom: 15:45 12/12	

Gas Volume Report

1st Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------



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County: LINCOLN
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Elevation: 5541 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 97

DATE
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13
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DST #5 **Formation: Breezy Hill- Celia** **Test Interval: 7800 - 7910'** **Total Depth: 7910'**
Time On: 10:28 12/13 Time Off: 21:18 12/13
Time On Bottom: 15:15 12/13 Time Off Bottom: 16:00 12/13

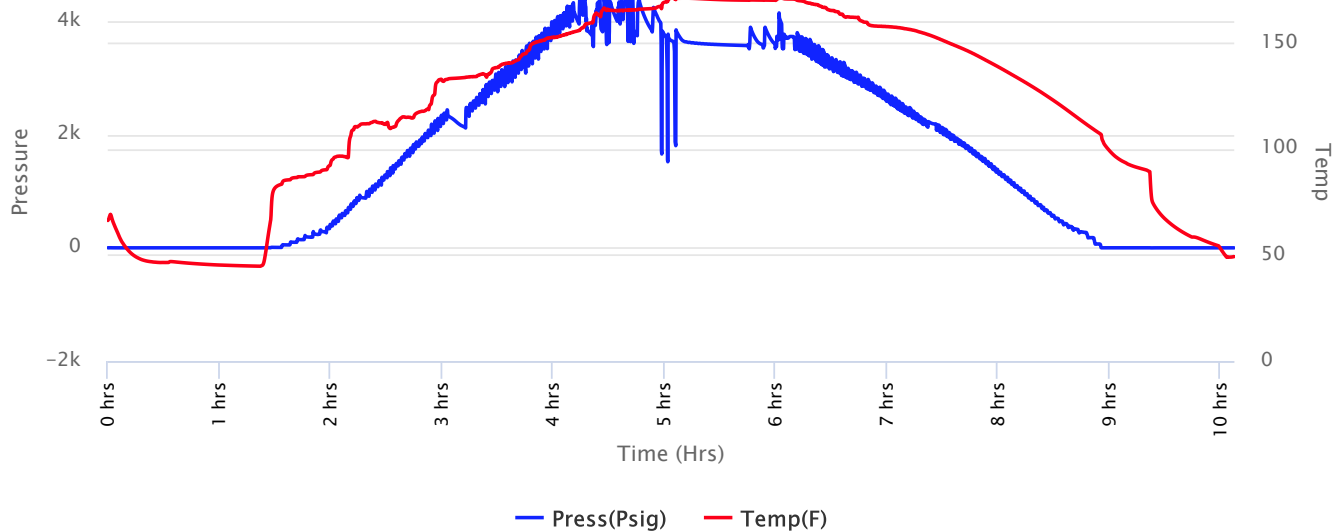
Electronic Volume
Estimate:
0'

1st Open
N/A

1st Close
N/A

2nd Open
N/A

2nd Close
N/A





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Pool: WILDCAT
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DATE
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13
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DST #5 **Formation: Breezy Hill- Celia** **Test Interval: 7800 - 7910'** **Total Depth: 7910'**
Time On: 10:28 12/13 Time Off: 21:18 12/13
Time On Bottom: 15:15 12/13 Time Off Bottom: 16:00 12/13

Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
930	8.0416199	M	0	0	0	100

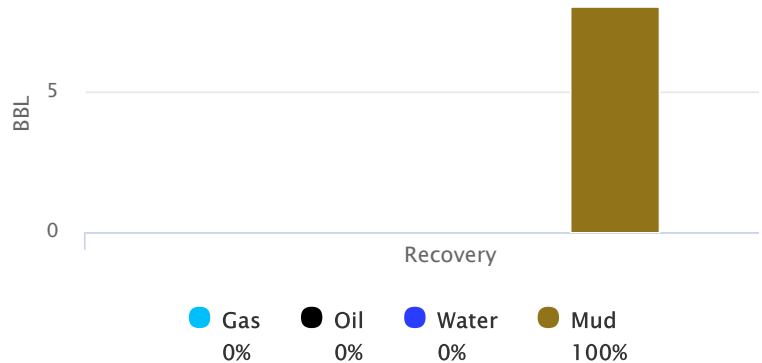
Total Recovered: 930 ft

Total Barrels Recovered: 8.0416199

Reversed Out
NO

Recovery at a glance

Initial Hydrostatic Pressure	3811	PSI
Initial Flow	0	PSI
Initial Closed in Pressure	0	PSI
Final Flow Pressure	0	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	3848	PSI
Temperature	171	°F
Pressure Change Initial Close / Final Close	0.0	%





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Field Name: Wildcat
Pool: WILDCAT
Job Number: 97

DATE December 13 2017
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DST #5	Formation: Breezy Hill- Celia	Test Interval: 7800 - 7910'	Total Depth: 7910'
	Time On: 10:28 12/13	Time Off: 21:18 12/13	
	Time On Bottom: 15:15 12/13	Time Off Bottom: 16:00 12/13	

REMARKS:

MISS RUN!!!!

Possible Packer Failure/ 50 ft of Sticky Hole

Ran into Same situation as DST 1, Weight wasn't being transferring to tool. Upon Second attempt we add more more weight to tool to get weight to packer but failed.



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DST #5 **Formation: Breezy Hill- Celia** **Test Interval: 7800 - 7910'** **Total Depth: 7910'**
Time On: 10:28 12/13 Time Off: 21:18 12/13
Time On Bottom: 15:15 12/13 Time Off Bottom: 16:00 12/13

Down Hole Makeup

Heads Up: 31.26 FT	Packer 1: 7793.57 FT
Drill Pipe: 7239.05 FT <i>ID-3 1/2</i>	Packer 2: 7800.07 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 7782.49 FT
Collars: 557.71 FT <i>ID-2 1/4</i>	Bottom Recorder: 7870 FT
Test Tool: 35.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 109.93	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 63.43 FT <i>ID-3 1/2</i>	
Change Over: .5 FT	
Perforations: (below): 41 FT <i>4 1/2-FH</i>	



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13
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DST #5 **Formation: Breezy** **Test Interval: 7800 -** **Total Depth: 7910'**
 Hill- Celia **7910'**
Time On: 10:28 12/13 Time Off: 21:18 12/13
Time On Bottom: 15:15 12/13 Time Off Bottom: 16:00 12/13

Mud Properties

Mud Type: Chem **Weight:** 9.5 **Viscosity:** 68 **Filtrate:** .8 **Chlorides:** 720 ppm

Time	Orifice	PSI	MCF/D
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