



# Company: Castle Resources, Inc

## Lease: Focke #1

SEC: 22 TWN: 2S RNG: 34W  
County: RAWLINS  
State: Kansas  
Drilling Contractor: White Knight Drilling, LLC - Rig 1  
Elevation: 3110 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 195

### Operation:

Test Complete

### DATE

August  
20  
2018

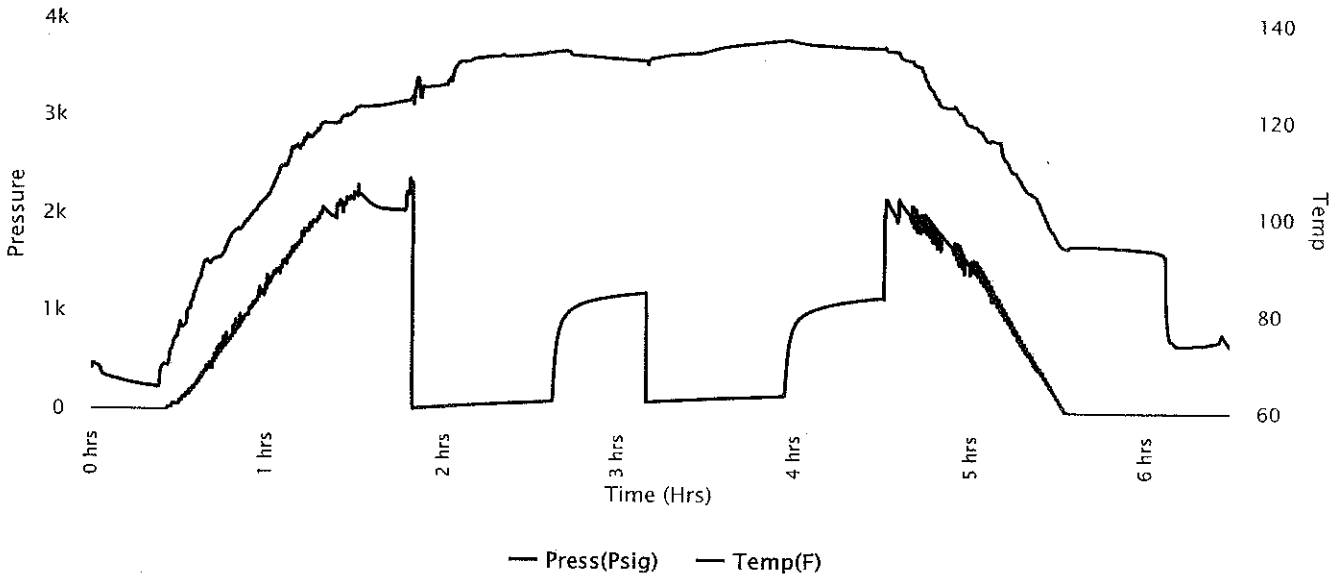
DST #1 Formation: L/KC "J-L" Test Interval: 4190 - 4330' Total Depth: 4330'

Time On: 10:00 08/20 Time Off: 16:19 08/20  
Time On Bottom: 11:45 08/20 Time Off Bottom: 14:15 08/20

Electronic Volume Estimate:  
252'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 45	Minutes: 30	Minutes: 45	Minutes: 30
Current Reading: 13.7" at 45 min	Current Reading: 0" at 30 min	Current Reading: 8.5" at 45 min	Current Reading: 0" at 30 min
Max Reading: 13.7"	Max Reading: 0"	Max Reading: 8.5"	Max Reading: 0"

Inside Recorder





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### Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
88	1.25224	SLWCM	0	0	18	82
63	0.89649	HMCW	0	0	55	45
126	1.79298	SLMCW	0	0	87	13

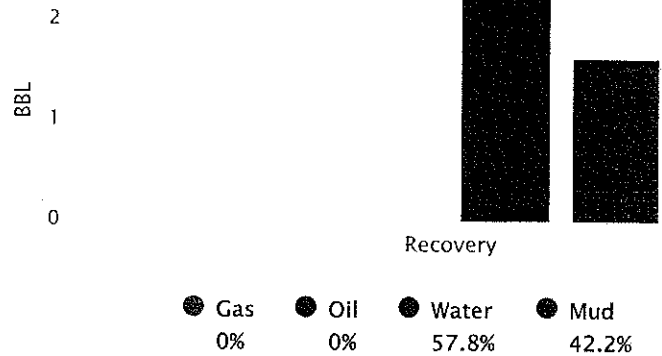
Total Recovered: 277 ft

Total Barrels Recovered: 3.94171

Reversed Out  
NO

Initial Hydrostatic Pressure	2107	PSI
Initial Flow	30 to 113	PSI
<b>Initial Closed in Pressure</b>	<b>1228</b>	<b>PSI</b>
Final Flow Pressure	114 to 178	PSI
<b>Final Closed in Pressure</b>	<b>1184</b>	<b>PSI</b>
Final Hydrostatic Pressure	2103	PSI
Temperature	138	°F
Pressure Change Initial Close / Final Close	3.6	%

### Recovery at a glance





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**BUCKET MEASUREMENT:**

1st Open: 1/2 in. blow building. BOB in 33 mins. 45 secs.  
1st Close: No blow back.  
2nd Open: 1/4 in. blow building to 8 1/2 ins. in 45 mins.  
2nd Close: No blow back.

**REMARKS:**

Light scum of oil throughout 278 ft. recovery.  
Tool Sample: 0% Gas 5% Oil 68% Water 27% Mud  
Ph: 7  
Measured RW: .17 @ 82 degrees °F  
RW at Formation Temp: 0.104 @ 138 °F  
Chlorides: 33,000 ppm



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**Down Hole Makeup**

<b>Heads Up:</b> 16.76 FT	<b>Packer 1:</b> 4185 FT
<b>Drill Pipe:</b> 4181.6 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4190 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4177 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4323 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 140	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"
<b>Anchor Makeup</b>	
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 3 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 126 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 8 FT <i>4 1/2-FH</i>	



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L"**      **Test Interval: 4190 -  
4330'**      **Total Depth: 4330'**  
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**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.4      **Viscosity:** 45      **Filtrate:** 11.2      **Chlorides:** 2,000 ppm



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**DST #2**    **Formation: Preach**    **Test Interval: 3939 - 3971'**    **Total Depth: 4330'**  
Time On: 16:46 08/20    Time Off: 23:36 08/20  
Time On Bottom: 19:02 08/20    Time Off Bottom: 21:02 08/20

Electronic Volume Estimate:  
19'

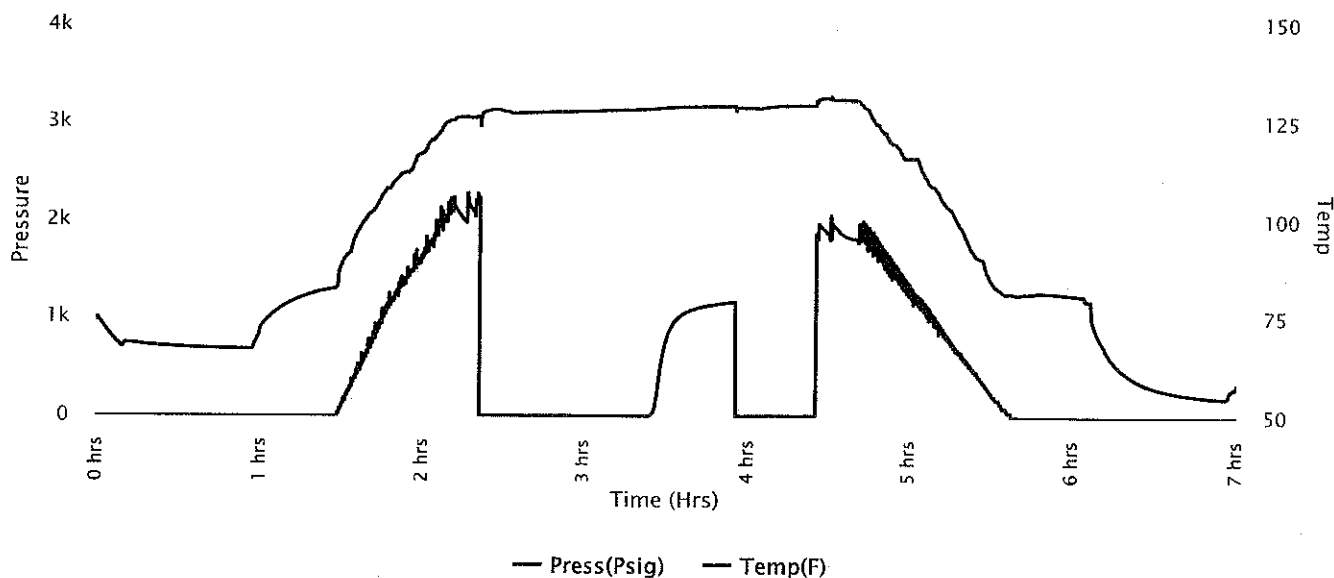
1st Open  
Minutes: 60  
Current Reading:  
1.8" at 60 min  
Max Reading: 1.8"

1st Close  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

2nd Open  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

2nd Close  
N/A

Inside Recorder





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### Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
25	0.35575	SLWCM	0	0	2	98

Total Recovered: 25 ft  
Total Barrels Recovered: 0.35575

**Reversed Out**  
NO

### Recovery at a glance

Initial Hydrostatic Pressure	2093	PSI
Initial Flow	19 to 21	PSI
<b>Initial Closed in Pressure</b>	<b>1183</b>	<b>PSI</b>
Final Flow Pressure	23 to 26	PSI
<b>Final Closed in Pressure</b>	<b>0</b>	<b>PSI</b>
Final Hydrostatic Pressure	1912	PSI
Temperature	130	°F
Pressure Change Initial Close / Final Close	0.0	%

BBL 0.2

0

Recovery

● Gas 0%    ● Oil 0%    ● Water 2%    ● Mud 98%





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Time On: 16:46 08/20      Time Off: 23:36 08/20  
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### BUCKET MEASUREMENT:

1st Open: Weak, surface blow building to 1 3/4 ins. in 60 mins.  
1st Close: No blow back.  
2nd Open: No blow. No build. Pulled tool.

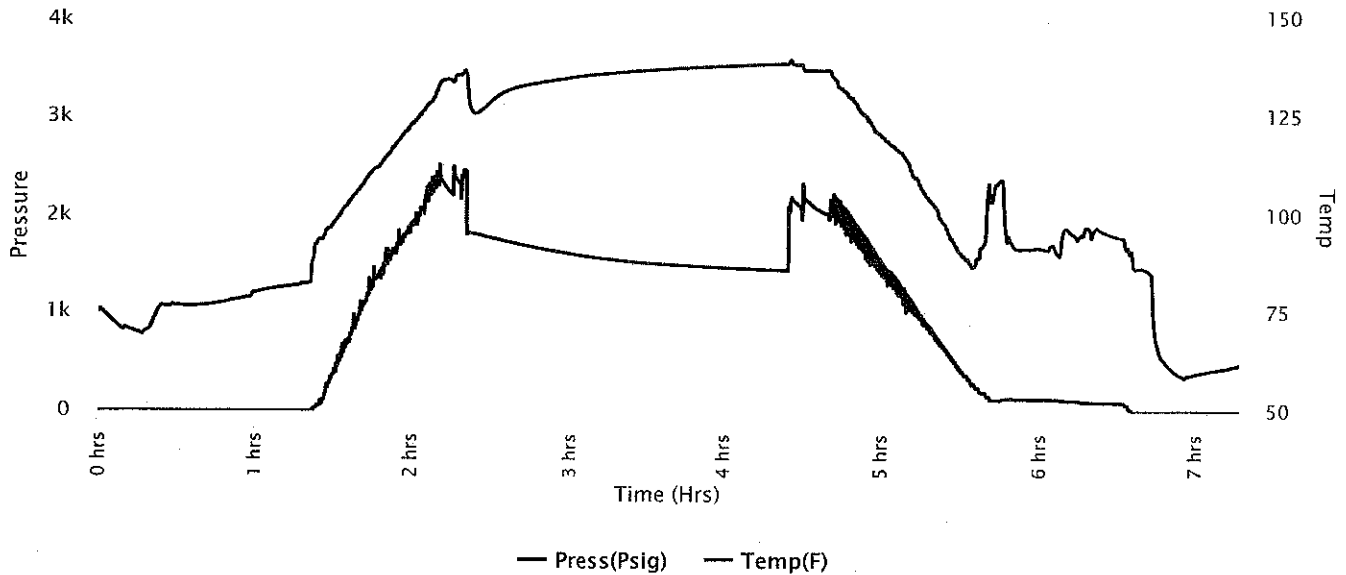
### REMARKS:

Several oil specks in 20 ft. recovery.

Below Straddle Max PSI: 1807

Tool Sample: 0% Gas 2% Oil 4% Water 94% Mud

### Below Straddle Recorder







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### Down Hole Makeup

<b>Heads Up:</b> 15.43 FT	<b>Packer 1:</b> 3933.5 FT
<b>Drill Pipe:</b> 3928.77 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3939 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Packer 3:</b> 3971 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Top Recorder:</b> 3925.5 FT
<b>Test Tool:</b> 26.66 FT <i>ID-3 1/2-FH</i>	<b>Bottom Recorder:</b> 3944 FT
<b>Total Anchor:</b> 32	<b>Below Straddle Recorder:</b> 4322 FT
	<b>Well Bore Size:</b> 7 7/8
	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

#### Anchor Makeup

**Packer Sub:** 1 FT

**Perforations: (top):** 3 FT  
*4 1/2-FH*

**Change Over:** FT

**Drill Pipe: (in anchor):** FT  
*ID-3 1/2*

**Change Over:** FT

**Perforations: (below):** 28 FT  
*4 1/2-FH*

#### STRADDLE

**Straddle Packer(s):** 1 FT

**Change Over:** 1 FT

**Drill Pipe:** 348 FT  
*ID-3 1/2"*

**Change Over:** 1 FT

**Perforations (in tail pipe):** 9 FT  
*4 1/2-FH*



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**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.5      **Viscosity:** 55      **Filtrate:** 12.0      **Chlorides:** 2,000 ppm