



Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ ☐ East ☐ West      County: \_\_\_\_\_

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
Geologist Report / Mud Logs	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
List All E. Logs Run:					

<div style="text-align: center;"> <b>CASING RECORD</b>      <input type="checkbox"/> New    <input type="checkbox"/> Used            Report all strings set-conductor, surface, intermediate, production, etc.         </div>							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No (If No, skip questions 2 and 3)
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No (If No, skip question 3)
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No (If No, fill out Page Three of the ACO-1)

Date of first Production/Injection or Resumed Production/Injection:		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil      Bbls.	Gas      Mcf	Water	Bbls.	Gas-Oil Ratio      Gravity

<p>DISPOSITION OF GAS:</p> <p><input type="checkbox"/> Vented    <input type="checkbox"/> Sold    <input type="checkbox"/> Used on Lease</p> <p><i>(If vented, Submit ACO-18.)</i></p>	<p>METHOD OF COMPLETION:</p> <p><input type="checkbox"/> Open Hole    <input type="checkbox"/> Perf.    <input type="checkbox"/> Dually Comp.    <input type="checkbox"/> Commingled</p> <p><i>(Submit ACO-5)</i>    <i>(Submit ACO-5)</i>    <i>(Submit ACO-4)</i></p>	<p>PRODUCTION INTERVAL:</p> <p>Top                      Bottom</p>	

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	DWIGHT 1-21
Doc ID	1465018

#### Tops

Name	Top	Datum
ANHYDRITE	1964	+581
BASE ANHYDRITE	1992	+553
STOTLER	3240	-695
HEEBNER	3617	-1072
LANSING	3653	-1108
STARK	3907	-1362
MARMATON	4014	-1469
FORT SCOTT	4164	-1619
CHEROKEE	4190	-1645
MISSISSIPPI	4258	-1713

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	DWIGHT 1-21
Doc ID	1465018

#### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	7.875	8.625	23	369	60/40 POZMIX	325	3%CC, 1/4#CF



# Company: L. D. Drilling, Inc

## Lease: Dwight #1-21

SEC: 21 TWN: 15S RNG: 29W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2534 GL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 342  
API #: 15-063-22357-00-00

### Operation:

Uploading recovery &  
pressures

### DATE

June  
**01**  
2019

DST #1      Formation: L/kc 160-  
180' zones      Test Interval: 3853 -  
3900'      Total Depth: 3900'

Time On: 21:06 06/01

Time Off: 23:32 06/01

Time On Bottom: 00:00 01/01

Time Off Bottom: 23:31 06/01

Electronic Volume  
Estimate:  
0'

1st Open

N/A

1st Close

N/A

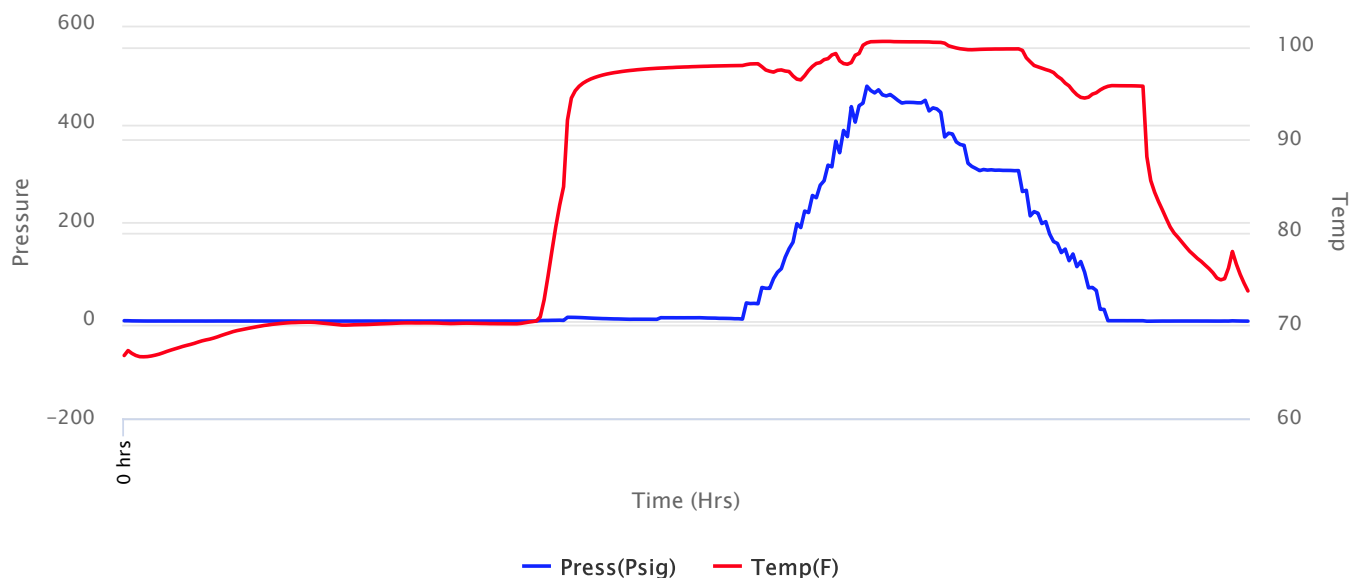
2nd Open

N/A

2nd Close

N/A

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Dwight #1-21**

SEC: 21 TWN: 15S RNG: 29W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2534 GL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 342  
API #: 15-063-22357-00-00

**Operation:**

Uploading recovery &  
pressures

**DATE**

June

**01**

2019

**DST #1**      **Formation: L/kc 160-180' zones**      **Test Interval: 3853 - 3900'**      **Total Depth: 3900'**

Time On: 21:06 06/01

Time Off: 23:32 06/01

Time On Bottom: 00:00 01/01

Time Off Bottom: 23:31 06/01

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



**Company: L. D. Drilling, Inc**  
**Lease: Dwight #1-21**

SEC: 21 TWN: 15S RNG: 29W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2534 GL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 342  
API #: 15-063-22357-00-00

**Operation:**

Uploading recovery &  
pressures

**DATE**

June  
**01**  
2019

<b>DST #1</b>	<b>Formation: L/kc 160- 180' zones</b>	<b>Test Interval: 3853 - 3900'</b>	<b>Total Depth: 3900'</b>
	Time On: 21:06 06/01	Time Off: 23:32 06/01	
	Time On Bottom: 00:00 01/01	Time Off Bottom: 23:31 06/01	

**BUCKET MEASUREMENT:**

**REMARKS:**

Hit bridge 15 stands in hole.



**Company: L. D. Drilling, Inc**  
**Lease: Dwight #1-21**

SEC: 21 TWN: 15S RNG: 29W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2534 GL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 342  
API #: 15-063-22357-00-00

**Operation:**

Uploading recovery &  
pressures

**DATE**

June  
**01**  
2019

**DST #1**      **Formation: L/kc 160-180' zones**      **Test Interval: 3853 - 3900'**      **Total Depth: 3900'**  
Time On: 21:06 06/01      Time Off: 23:32 06/01  
Time On Bottom: 00:00 01/01      Time Off Bottom: 23:31 06/01

**Down Hole Makeup**

**Heads Up:** 17.49 FT

**Packer 1:** 3848 FT

**Drill Pipe:** 3837.92 FT  
*ID-3 1/4*

**Packer 2:** 3853 FT

**Weight Pipe:** FT  
*ID-2 7/8*

**Top Recorder:** 3837.42 FT

**Collars:** FT  
*ID-2 1/4*

**Bottom Recorder:** 3855 FT

**Test Tool:** 33.57 FT  
*ID-3 1/2-FH*  
*Jars*  
*Safety Joint*

**Well Bore Size:** 7 7/8

**Surface Choke:** 1"

**Bottom Choke:** 5/8"

**Total Anchor:** 47

**Anchor Makeup**

**Packer Sub:** 1 FT

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

**Change Over:** FT

**Drill Pipe: (in anchor):** FT  
*ID-3 1/4*

**Change Over:** FT

**Perforations: (below):** 46 FT  
*4 1/2-FH*





**Company: L. D. Drilling, Inc**  
**Lease: Dwight #1-21**

SEC: 21 TWN: 15S RNG: 29W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2534 GL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 342  
API #: 15-063-22357-00-00

**Operation:**

Uploading recovery &  
pressures

**DATE**

June

**01**

2019

**DST #1**      **Formation: L/kc 160-180' zones**      **Test Interval: 3853 - 3900'**      **Total Depth: 3900'**  
Time On: 21:06 06/01      Time Off: 23:32 06/01  
Time On Bottom: 00:00 01/01      Time Off Bottom: 23:31 06/01

**Mud Properties**

**Mud Type:** Chemical

**Weight:** 9.3

**Viscosity:** 60

**Filtrate:** 6.0

**Chlorides:** 2700 ppm



# Company: L. D. Drilling, Inc

## Lease: Dwight #1-21

SEC: 21 TWN: 15S RNG: 29W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2534 GL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 342  
API #: 15-063-22357-00-00

### Operation:

Test Complete

### DATE

June  
**02**  
2019

DST #2 Formation: L/kc 160-180' zones Test Interval: 3853 - 3900' Total Depth: 3900'

Time On: 06:50 06/02

Time Off: 13:33 06/02

Time On Bottom: 09:23 06/02

Time Off Bottom: 11:23 06/02

Electronic Volume  
Estimate:  
12'

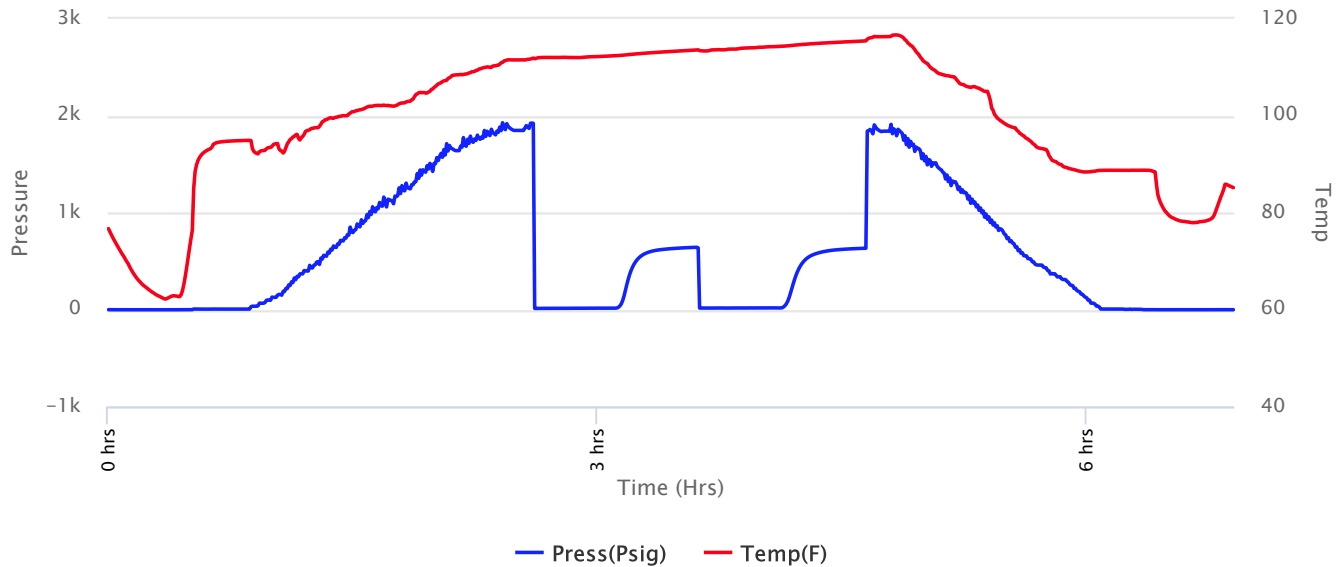
1st Open  
Minutes: 30  
Current Reading:  
1.1" at 30 min  
Max Reading: 1.1"

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

2nd Open  
Minutes: 30  
Current Reading:  
.1" at 30 min  
Max Reading: .1"

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

Inside Recorder





# Company: L. D. Drilling, Inc

## Lease: Dwight #1-21

SEC: 21 TWN: 15S RNG: 29W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2534 GL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 342  
 API #: 15-063-22357-00-00

**Operation:**  
 Test Complete

**DATE**  
 June  
**02**  
 2019

**DST #2**      **Formation: L/kc 160-180' zones**      **Test Interval: 3853 - 3900'**      **Total Depth: 3900'**  
 Time On: 06:50 06/02      Time Off: 13:33 06/02  
 Time On Bottom: 09:23 06/02      Time Off Bottom: 11:23 06/02

### Recovered

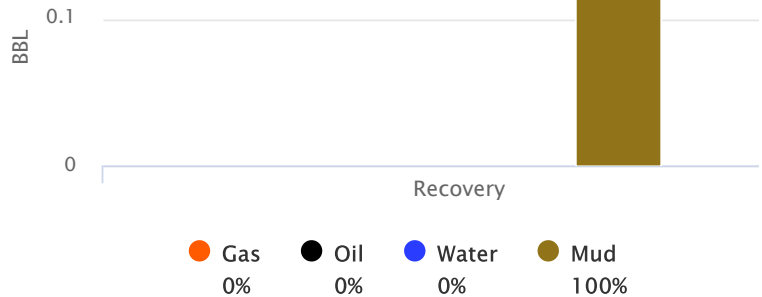
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
15	0.1539	M	0	0	0	100

Total Recovered: 15 ft  
 Total Barrels Recovered: 0.1539

Reversed Out  
 NO

### Recovery at a glance

Initial Hydrostatic Pressure	1848	PSI
Initial Flow	12 to 15	PSI
<b>Initial Closed in Pressure</b>	<b>643</b>	<b>PSI</b>
Final Flow Pressure	16 to 17	PSI
<b>Final Closed in Pressure</b>	<b>633</b>	<b>PSI</b>
Final Hydrostatic Pressure	1840	PSI
Temperature	116	°F
Pressure Change Initial Close / Final Close	1.6	%



GIP cubic foot volume: 0



**Company: L. D. Drilling, Inc**  
**Lease: Dwight #1-21**

SEC: 21 TWN: 15S RNG: 29W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2534 GL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 342  
API #: 15-063-22357-00-00

**Operation:**

Test Complete

**DATE**

June

**02**

2019

**DST #2      Formation: L/kc 160-180' zones      Test Interval: 3853 - 3900'      Total Depth: 3900'**

Time On: 06:50 06/02

Time Off: 13:33 06/02

Time On Bottom: 09:23 06/02

Time Off Bottom: 11:23 06/02

**BUCKET MEASUREMENT:**

1st Open: 1/4" built to 1"

1st Close: Nobb

2nd Open: Wsb no build

2nd Close: Nobb

**REMARKS:**

tool sample had oil spec

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



**Company: L. D. Drilling, Inc**  
**Lease: Dwight #1-21**

SEC: 21 TWN: 15S RNG: 29W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2534 GL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 342  
API #: 15-063-22357-00-00

**Operation:**

Test Complete

**DATE**

June

**02**

2019

**DST #2**      **Formation: L/kc 160-**  
                         **180' zones**      **Test Interval: 3853 -**  
   **3900'**      **Total Depth: 3900'**

Time On: 06:50 06/02

Time Off: 13:33 06/02

Time On Bottom: 09:23 06/02

Time Off Bottom: 11:23 06/02

**Down Hole Makeup**

**Heads Up:** 17.49 FT

**Packer 1:** 3848 FT

**Drill Pipe:** 3837.92 FT

**Packer 2:** 3853 FT

*ID-3 1/4*

**Top Recorder:** 3837.42 FT

**Weight Pipe:** FT

**Bottom Recorder:** 0 FT

*ID-2 7/8*

**Collars:** FT

**Well Bore Size:** 7 7/8

*ID-2 1/4*

**Surface Choke:** 1"

**Test Tool:** 33.57 FT

**Bottom Choke:** 5/8"

*ID-3 1/2-FH*

*Jars*

*Safety Joint*

**Total Anchor:** 47

**Anchor Makeup**

**Packer Sub:** 1 FT

**Perforations: (top):** FT

*4 1/2-FH*

**Change Over:** FT

**Drill Pipe: (in anchor):** FT

*ID-3 1/4*

**Change Over:** FT

**Perforations: (below):** 46 FT

*4 1/2-FH*



**Company: L. D. Drilling, Inc**  
**Lease: Dwight #1-21**

SEC: 21 TWN: 15S RNG: 29W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2534 GL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 342  
API #: 15-063-22357-00-00

**Operation:**

Test Complete

**DATE**

June

**02**

2019

**DST #2**      **Formation: L/kc 160-180' zones**      **Test Interval: 3853 - 3900'**      **Total Depth: 3900'**

Time On: 06:50 06/02

Time Off: 13:33 06/02

Time On Bottom: 09:23 06/02

Time Off Bottom: 11:23 06/02

**Mud Properties**

**Mud Type:** Chemical

**Weight:** 9.2

**Viscosity:** 56

**Filtrate:** 6.0

**Chlorides:** 2200 ppm



# Company: L. D. Drilling, Inc

## Lease: Dwight #1-21

SEC: 21 TWN: 15S RNG: 29W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2534 GL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 342  
API #: 15-063-22357-00-00

### Operation:

Uploading recovery &  
pressures

### DATE

June  
**02**  
2019

DST #3

Formation: Middle  
creek

Test Interval: 3935 -  
3955'

Total Depth: 3955'

Time On: 22:57 06/02

Time Off: 04:49 06/03

Time On Bottom: 01:03 06/03

Time Off Bottom: 03:03 06/03

Electronic Volume  
Estimate:  
21'

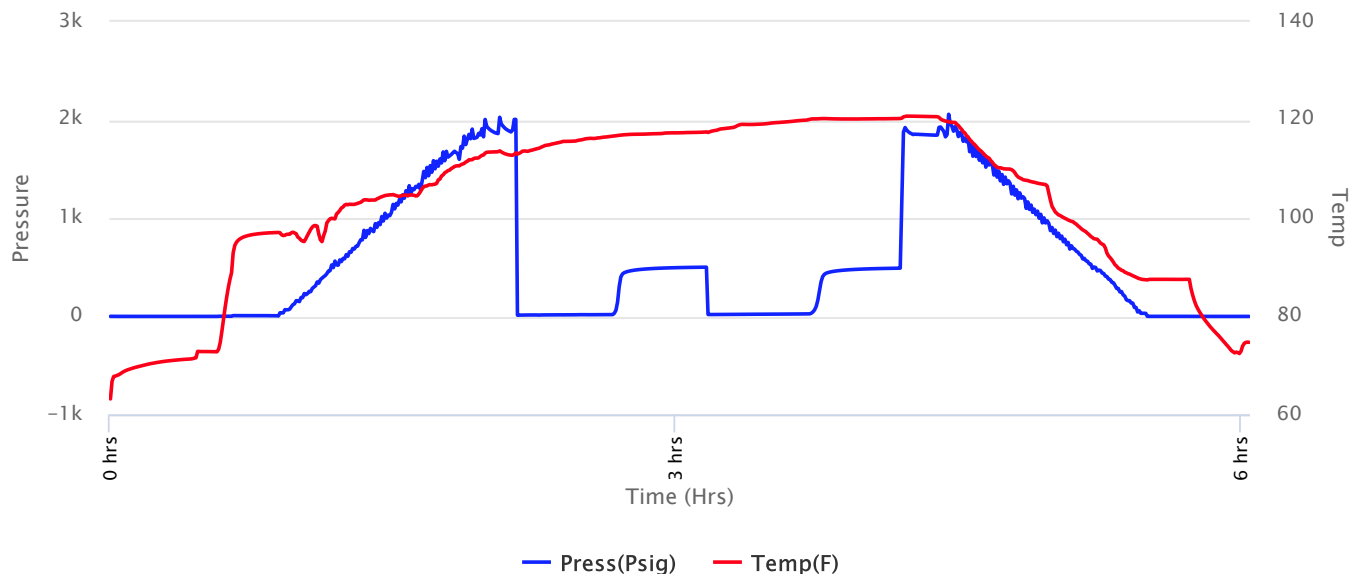
1st Open  
Minutes: 30  
Current Reading:  
1.5" at 30 min  
Max Reading: 1.5"

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

2nd Open  
Minutes: 30  
Current Reading:  
.5" at 30 min  
Max Reading: .5"

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

Inside Recorder





# Company: L. D. Drilling, Inc

## Lease: Dwight #1-21

SEC: 21 TWN: 15S RNG: 29W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2534 GL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 342  
 API #: 15-063-22357-00-00

### Operation:

Uploading recovery &  
pressures

### DATE

June  
**02**  
2019

DST #3

Formation: Middle  
creek

Test Interval: 3935 -  
3955'

Total Depth: 3955'

Time On: 22:57 06/02

Time Off: 04:49 06/03

Time On Bottom: 01:03 06/03

Time Off Bottom: 03:03 06/03

### Recovered

Foot	BBLs
31	0.31806

Description of Fluid
M

Gas %
0

Oil %
0

Water %
0

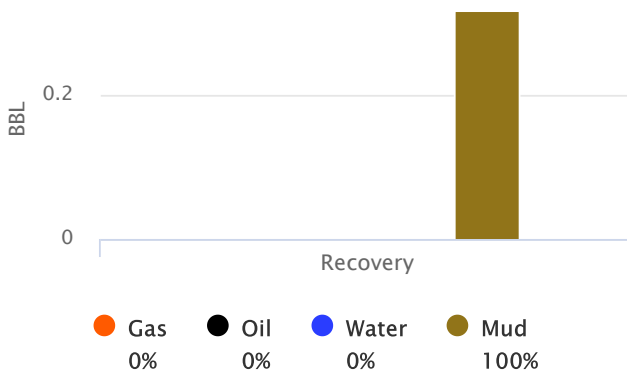
Mud %
100

Total Recovered: 31 ft

Total Barrels Recovered: 0.31806

Reversed Out  
NO

### Recovery at a glance



Initial Hydrostatic Pressure	1886	PSI
Initial Flow	11 to 17	PSI
Initial Closed in Pressure	500	PSI
Final Flow Pressure	18 to 24	PSI
Final Closed in Pressure	490	PSI
Final Hydrostatic Pressure	1867	PSI
Temperature	121	°F
Pressure Change Initial Close / Final Close	2.0	%

GIP cubic foot volume: 0





**Company: L. D. Drilling, Inc**  
**Lease: Dwight #1-21**

SEC: 21 TWN: 15S RNG: 29W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2534 GL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 342  
API #: 15-063-22357-00-00

**Operation:**

Uploading recovery &  
pressures

**DATE**

June  
**02**  
2019

**DST #3**

**Formation: Middle  
creek**

**Test Interval: 3935 -  
3955'**

**Total Depth: 3955'**

Time On: 22:57 06/02

Time Off: 04:49 06/03

Time On Bottom: 01:03 06/03

Time Off Bottom: 03:03 06/03

**BUCKET MEASUREMENT:**

1st Open: Wsb built to 1 1/2"

1st Close: Nobb

2nd Open: Wsb built to 1/2"

2nd Close: Nobb

**REMARKS:**

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



**Company: L. D. Drilling, Inc**  
**Lease: Dwight #1-21**

SEC: 21 TWN: 15S RNG: 29W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2534 GL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 342  
API #: 15-063-22357-00-00

**Operation:**

Uploading recovery &  
pressures

**DATE**

June

**02**

2019

**DST #3**

**Formation: Middle  
creek**

**Test Interval: 3935 -  
3955'**

**Total Depth: 3955'**

Time On: 22:57 06/02

Time Off: 04:49 06/03

Time On Bottom: 01:03 06/03

Time Off Bottom: 03:03 06/03

**Down Hole Makeup**

**Heads Up:** 29.49 FT

**Packer 1:** 3930 FT

**Drill Pipe:** 3931.92 FT

**Packer 2:** 3935 FT

*ID-3 1/4*

**Top Recorder:** 3919.42 FT

**Weight Pipe:** FT

**Bottom Recorder:** 3937 FT

*ID-2 7/8*

**Collars:** FT

**Well Bore Size:** 7 7/8

*ID-2 1/4*

**Surface Choke:** 1"

**Test Tool:** 33.57 FT

**Bottom Choke:** 5/8"

*ID-3 1/2-FH*

*Jars*

*Safety Joint*

**Total Anchor:** 20

**Anchor Makeup**

**Packer Sub:** 1 FT

**Perforations: (top):** FT

*4 1/2-FH*

**Change Over:** FT

**Drill Pipe: (in anchor):** FT

*ID-3 1/4*

**Change Over:** FT

**Perforations: (below):** 19 FT

*4 1/2-FH*



**Company: L. D. Drilling, Inc**  
**Lease: Dwight #1-21**

SEC: 21 TWN: 15S RNG: 29W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2534 GL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 342  
API #: 15-063-22357-00-00

**Operation:**

Uploading recovery &  
pressures

**DATE**

June  
**02**  
2019

**DST #3**

**Formation: Middle  
creek**

**Test Interval: 3935 -  
3955'**

**Total Depth: 3955'**

Time On: 22:57 06/02

Time Off: 04:49 06/03

Time On Bottom: 01:03 06/03 Time Off Bottom: 03:03 06/03

**Mud Properties**

**Mud Type:** Chemical

**Weight:** 9.2

**Viscosity:** 56

**Filtrate:** 6.0

**Chlorides:** 2200 ppm

**Company: L. D. Drilling, Inc**  
**Lease: Dwight #1-21**



# Company: L. D. Drilling, Inc

## Lease: Dwight #1-21

SEC: 21 TWN: 15S RNG: 29W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2534 GL  
 Field Name: Jasper East  
 Pool: Infield  
 Job Number: 342  
 API #: 15-063-22357-00-00

### Operation:

Uploading recovery &  
pressures

### DATE

June  
**04**  
2019

DST #4

Formation: Ft. Scott  
- Johnson

Test Interval: 4127 -  
4250'

Total Depth: 4250'

Time On: 12:00 06/04

Time Off: 18:07 06/04

Time On Bottom: 13:59 06/04

Time Off Bottom: 15:59 06/04

### Recovered

Foot	BBLs
20	0.2052

Description of Fluid
M

Gas %
0

Oil %
0

Water %
0

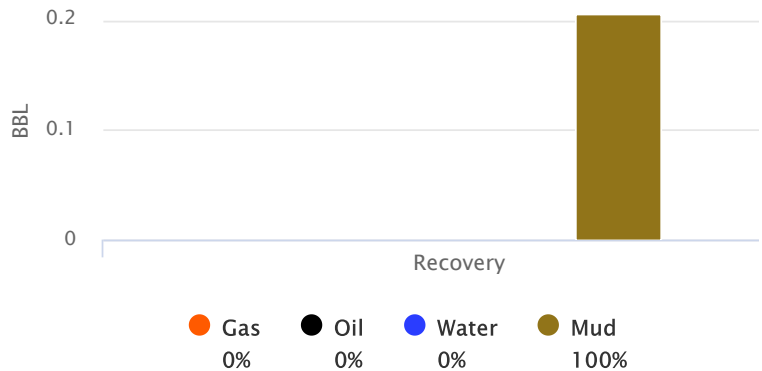
Mud %
100

Total Recovered: 20 ft

Total Barrels Recovered: 0.2052

Reversed Out  
NO

### Recovery at a glance



Initial Hydrostatic Pressure	2075	PSI
Initial Flow	15 to 20	PSI
Initial Closed in Pressure	883	PSI
Final Flow Pressure	18 to 21	PSI
Final Closed in Pressure	809	PSI
Final Hydrostatic Pressure	2062	PSI
Temperature	122	°F
Pressure Change Initial Close / Final Close	8.5	%

GIP cubic foot volume: 0



<b>Heads Up:</b>	25.28 FT
<b>Drill Pipe:</b>	4119.66 FT
<i>ID-3 1/4</i>	
<b>Weight Pipe:</b>	0 FT
<i>ID-2 7/8</i>	
<b>Collars:</b>	0 FT
<i>ID-2 1/4</i>	
<b>Test Tool:</b>	33.57 FT
<i>ID-3 1/2-FH</i>	
<i>Jars</i>	
<i>Safety Joint</i>	
<b>Total Anchor:</b>	123.05
<u><b>Anchor Makeup</b></u>	
<b>Packer Sub:</b>	1 FT
<b>Perforations: (top):</b>	4 FT
<i>4 1/2-FH</i>	
<b>Change Over:</b>	1 FT
<b>Drill Pipe: (in anchor):</b>	93.05 FT
<i>ID-3 1/4</i>	
<b>Change Over:</b>	1 FT
<b>Perforations: (below):</b>	23 FT
<i>4 1/2-FH</i>	



SEC: 21 TWN: 15S RNG: 29W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2534 GL  
Field Name: Jasper East  
Pool: Infield  
Job Number: 342  
API #: 15-063-22357-00-00

## Uploading recovery & pressures

2019

<b>DST #4</b>	<b>Formation: Ft. Scott - Johnson</b>	<b>Test Interval: 4127 - 4250'</b>	<b>Total Depth: 4250'</b>
---------------	---	--	---------------------------

Time On: 12:00 06/04

Time Off: 18:07 06/04

Time On Bottom: 13:59 06/04    Time Off Bottom: 15:59 06/04

## Mud Properties

**Mud Type:** Chemical

**Weight: 9.5**

**Viscosity:** 59

**Filtrate: 7.4**

**Chlorides:** 2,300 ppm





KIM B. SHOEMAKER

CONSULTING GEOLOGIST

318-884-9701 • WICHITA, KS

# GEOLOGIST'S REPORT

WELL LOG AND SAMPLE LOG

L. D. DRILLING, INC.

#1-21 DWIGHT

WILDCAT

1853' FSL + 1503' FEL

21 15s 29W

GOVE

KANSAS

L. D. DRILLING, INC.

5-17-19 6-5-19

4370

4371

3251

CHEMICAL

2545

2540

Measurements Are At  
From 2545 KB

8 5/8" @ 369'

DUAL IND., DENS., N., MICRO

3400 TO 4370

3200 TO 4370

3400 TO 4370

3600 TO 4370

Kim B. Shoemaker

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1964+ 581	1963+ 582
B/ANH.	1992+ 553	1992+ 553
STOTLER	3240- 695	3242- 697
HEEBNER	3617- 1072	3618- 1073
LANSING	3653- 1108	3653- 1108
STARK	3907- 1362	3906- 1361
MARMATON	4014- 1469	4016- 1471
FORT SCOTT	4164- 1619	4162- 1617
CHEROKEE	4190- 1645	4188- 1643
MISSISSIPPI	4258- 1713	4262- 1717

21

API: 15-063-22357

Elevation change below \*

Alternate Drilled 25406L

Original Corrected 25346L

5-17-19 SPUD  
5-18 @ 372'  
5-19 @ 1846'  
5-20 @ 2630'  
5-21 @ 3120'  
DOWN RAIN  
5-30 @ 3126'  
5-31 @ 3320'  
6-1 @ 3782'  
6-2 @ 3900'  
6-3 @ 3955'  
6-4 @ 4250'  
6-5 @ 4370'

## LEGEND



DRILLING TIME IN MINUTES  
PER FOOT  
Rate of Penetration Indicator

1900

LITHOLOGY

REMARKS

SAMPLE DESCRIPTIONS

ANHYDRITE

1963+ 576  
583

B/ANH.

1992+ 547  
553

2000

2000

3200

3300

3400



STOTLER 3242-703  
-697

VIS: 42 WT: 8.8  
Wk: 6.0 CUL: 2700

sh. lig. silty  
Samples are Lagged  
ls. lig. Dis.  
ls. wt. Foss. calcitic  
sh. G.  
ls. wt. Foss. calcitic  
sh. lig.  
ls. wt. lig. silty silty Foss.  
sh. lig.  
ls. wt. silty Foss. silty  
ls. lig. vs. ch. B.





LS. G. Dm.

MUNCIE CREEK 3820-1281

LS. Bk. 1281

LS. Bk. VSI Foss. Sl. calcitic

Sh. Ltg. G.

LS. wt. LS. wt. Sl. Foss. Sl. A

LS. wt. Ltg. Sl. Foss. Sl. A

A. wt. Ltg.

Sh. Ltg. Bk.

A. Bk. Dm. VSI Foss.

Sh. Ltg. G.

LS. wt. Ltg. VSI Foss. Sl. A. F. P. V. G. of  
Bk. wt. Sl. Foss. Sl. A. F. P. V. G. of  
(3880)

LS. Ltg. wt. Sl. Foss. Foss. Sl. calcitic F. V. G. of  
Bk. wt. Sl. Foss. Sl. A. F. P. V. G. of  
(3880)

LS. Bk. Dm. Sl. Foss. Sl. A. F. P. V. G. of  
Bk. wt. Sl. Foss. Sl. A. F. P. V. G. of  
(3880)

VIS: 56 WT: 9.2  
WL: 6.0 CHL: 2200

STARK 3906-1361

Sh. Bk. G. B.

A. Ltg. G.

LS. wt. Ltg. Sl. Foss. Foss. Sl. calcitic F. V. G. of  
Bk. wt. Sl. Foss. Sl. A. F. P. V. G. of  
(3920)

LS. Ltg. VSI Foss. Sl. A

HUSHPUCKNEY 3937-1392

Sh. Bk. G. B.

LS. wt. Ltg. VSI Foss. Sl. A

LS. wt. Ltg. Sl. Foss. Sl. A

LS. wt. Ltg. Sl. Foss. Sl. A

Sh. G.

LS. Ltg. wt. VSI Foss. VSI ch. G.

VIS: 46 WT: 9.3  
WL: 8.0 CHL: 2300

LS. G. Sl. Foss. Calcitic

B/KC 3987-1442

LS. Tm. G. Sl. Foss. Calcitic

Sh. Ltg. G. B.

MARMATON 4016-1471

LS. wt. Sl. Foss. Sl. A

Sh. Ltg. Bk.

LS. Bk. G. VSI Foss.

Sh. Pk.

Sh. Pk.

LS. wt. Sl. Foss. Sl. A

Sh. Ltg.

LS. wt. Ltg. VSI Foss. Sl. A

LS. Tm. Sl. Foss. Sl. A

Sh. Bk. G.

PAWNEE 4100-1555

LS. wt. Sl. Foss. Sl. A

LS. wt. Sl. Foss. Sl. A

LS. Tm. Sl. Foss. Sl. A

Sh. Bk. G. LS. Bk. VSI Calcitic

Sh. G. B.

New Tester Tool

DST (1) 3853-3900  
Hit Bridge 1900 ft. could not get  
to bottom

DST (2) 3853-3900

1st OPEN: Blow built to 1"

2nd OPEN: Surface Blow

30-30-30-30

Rec. 15' Mud

Tool Sample 100' Mud

FP: 12.15 10-178

SIP: 643-633 #

Temp 116°F

DST (3) 3935-3955

1st OPEN: Blow built to 1 1/2"

2nd OPEN: " " 1 1/2"

30-30-30-30

Rec. 31' Mud

Tool Sample 100' Mud

FP: 11.17 18-228

SIP: 500-490 #

Temp 124°F



LS. Lgt. Sil Foss Sil Chky. - w/lycl. to No. 100  
 1/2" LS w/ edge flow; w/lycl. to No. 100  
 2nd DEVI: " " dled 2 1/2 min.  
 30-30-30-30  
 Re. 20' Mud  
 FP: 15-20 18-21\*  
 SIP: 883-809\*

DST (1) 4127-4250

1st DEVI: Surface Blow  
 2nd DEVI: " " dled 2 1/2 min.

30-30-30-30

Re. 20' Mud

FP: 15-20 18-21\*

SIP: 883-809\*

Temp.  
122.05



Sh Blk Inv.  
 FORT SCOTT 4162-1623  
 -1617

LS. Blg. V. Sil Foss Sil A

A Blg.

LS. T. g. ool. Sil A Dm.

CHEROKEE 4188-1649  
 Sh Blk Inv.  
 -1643

LS. Bl. T. ool. Colitic

LS. Bl. V. Sil A

Sh. g. ool.

LS. T. g. Sil Foss Sil A

Sh. g. ool.

LS. T. g. V. Sil Foss Colitic

Sh. Blg.

JOHNSON 4239-1695  
 -1689

LS. T. g. Bl. V. Sil Foss Sil A

LS. Blg. V. Sil Sil A

Sh. Yellow V. Sil Sil A

VIS: 59 WT: 9.5

WL: 7.4 CML: 2300 Sh Yellow Gr. Blue. V. Sil Sil A

MISSISSIPPI 4262-1723  
 -1717

LS. T. g. Bl. Sil A

LS. Blg.

LS. wt. chky.

LS. wt. Bl. Sil A

LS. T. g. wt. ool. Sil chky.

LS. Bl. Foss Sil A

Dol. w/ l. g. V. Foss Sil A

Dol. wt. g. V. Foss Sil A

Dol. wt. g. V. Foss Sil A

LS. Bl. g. Foss Sil A

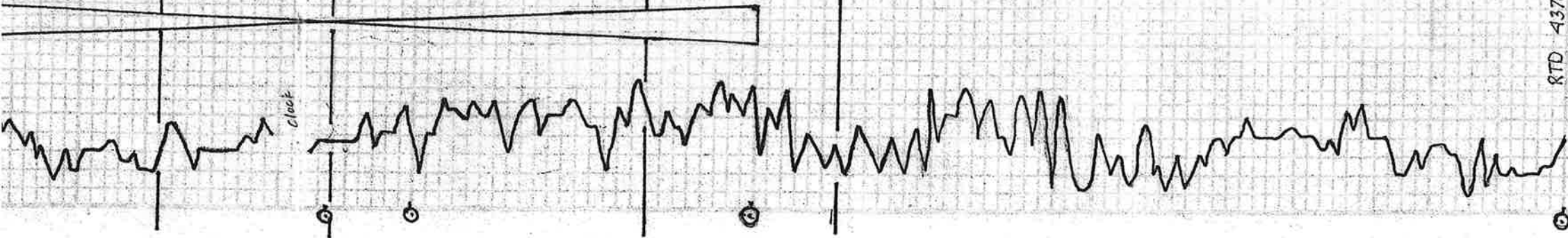
LS. Bl. Bl. Foss Sil A

Dol. Blg. V. Foss Sil A

LS. Bl. Foss Colitic

Dol. Blg. V. Foss Sil A

RTD 4370-1831



4200

4300

4400



**10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201**

## FIELD SERVICE TICKET

1718 17865 A

## PRESSURE PUMPING & WIRELINE

21-155-295

DATE \_\_\_\_\_

TICKET NO.

DATE OF JOB <b>6/5/2018</b>		DISTRICT <b>Prstt, KS</b>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER <b>LD Drilling</b>				LEASE <b>Dwight</b>				WELL NO. <b>1-2</b>	
ADDRESS				COUNTY <b>Gove</b>				STATE <b>Ks</b>	
CITY				STATE				SERVICE CREW <b>Darin, Brian, Charlie</b>	
AUTHORIZED BY				JOB TYPE: <b>242/PTA</b>					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<b>27463</b>	<b>2 1/4</b>						<b>6/5</b>	<b>PM</b>	<b>11:20</b>
<b>19862</b>	<b>1/2</b>					ARRIVED AT JOB	<b>6/5</b>	<b>PM</b>	<b>4:45</b>
						START OPERATION	<b>6/5</b>	<b>PM</b>	<b>5:15</b>
						FINISH OPERATION	<b>6/5</b>	<b>PM</b>	<b>8:00</b>
						RELEASED	<b>6/5</b>	<b>PM</b>	<b>8:30</b>
						MILES FROM STATION TO WELL	<b>218</b>		

**CONTRACT CONDITIONS:** (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

[illegible]

SUB TOTAL

11,172	00
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CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
DISCOUNT TOTAL		5,989	31

SERVICE REPRESENTATIVE *Ben F. L.*

THE ABOVE MATERIAL AND SERVICE  
ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer <i>LD Drilling</i>	Lease No.	Date <i>6/5/2019</i>
Lease <i>Dwight</i>	Well # <i>1-21</i>	
Field Order # <i>17865</i>	Station <i>Pratt, KS</i>	Casing
Type Job <i>242/PTA</i>	Depth	County <i>Gove</i> State <i>KS</i>
Formation	Legal Description <i>21-15S-29S</i>	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>1975</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>28</i>	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush <i>W9K, mud</i>	Gas Volume		Total Load

Customer Representative <i>Rick Wilson</i>	Station Manager <i>Justin Westerman</i>	Treater <i>Darin Franklin</i>
Service Units <i>92911</i>	<i>27463</i>	<i>19862</i>
Driver Names <i>Darin</i>	<i>Brian</i>	<i>Chadler</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>4:45pm</i>					<i>On location / safety meeting</i>
					<i>240SK 60/40 Pol, 4% Gel, 1/4 H Cellulose</i>
					<i>1975 - 50SK</i>
<i>5:15pm</i>	<i>200</i>		<i>8</i>	<i>5</i>	<i>8 Water</i>
	<i>200</i>		<i>13</i>	<i>5</i>	<i>50SK Cement</i>
	<i>200</i>		<i>3</i>	<i>5</i>	<i>3 Water</i>
	<i>200</i>		<i>21</i>	<i>5</i>	<i>21 mud</i>
					<i>925 - 100SK</i>
	<i>200</i>		<i>9</i>	<i>5</i>	<i>9 Water</i>
	<i>200</i>		<i>25</i>	<i>5</i>	<i>100SK Cement</i>
	<i>200</i>		<i>3</i>	<i>5</i>	<i>3 Water</i>
					<i>4001 - 50SK</i>
	<i>200</i>		<i>3</i>	<i>5</i>	<i>3 Water</i>
	<i>200</i>		<i>13</i>	<i>5</i>	<i>13 Cement</i>
	<i>200</i>		<i>1</i>	<i>5</i>	<i>8 Water</i>
	<i>100</i>		<i>2.5</i>	<i>3</i>	<i>40 - 10</i>
<i>8:00pm</i>	<i>0</i>		<i>7</i>	<i>3</i>	<i>PH - 30 SK</i>

*Job complete / Darin & crew*





**10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201**

TTM 4  
50

## FIELD SERVICE TICKET

1718 **17936** A

DATE      TICKET NO.

DATE OF JOB <b>5-17-R</b> DISTRICT				NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:			
CUSTOMER <b>LD Drilling</b>				LEASE <b>Dwight</b> WELL NO. <b>121</b>			
ADDRESS				COUNTY <b>Gove</b> STATE <b>KS</b>			
CITY STATE				SERVICE CREW <b>MATT Mcgraw Trevino</b>			
AUTHORIZED BY				JOB TYPE: <b>2-42 8 5/8 SURVEY</b>			
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE <b>5-17</b> AM <input checked="" type="checkbox"/> TIME <b>2:30</b>
<b>86779 *</b>	<b>1.5</b>					ARRIVED AT JOB	AM <input checked="" type="checkbox"/> <b>7:00</b>
<b>19860</b>	<b>2.5</b>					START OPERATION	AM <input checked="" type="checkbox"/> <b>10:06</b>
						FINISH OPERATION	AM <input checked="" type="checkbox"/> <b>10:35</b>
						RELEASED	AM <input checked="" type="checkbox"/> <b>11:30</b>
						MILES FROM STATION TO WELL	<b>167</b>

**CONTRACT CONDITIONS:** (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: X/Kel W  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

[illegible]

SUB TOTAL	13,034.25
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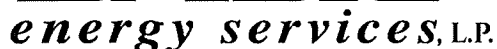
CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL		\$ 7600	77

23

SERVICE REPRESENTATIVE	Mike Marra THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>X</i> <i>Phil W.</i>
------------------------	---

FIELD SERVICE ORDER NO.



# TREATMENT REPORT

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 325 60/40 P82	RATE	PRESS	ISIP
Depth 369.70	Depth	From	To	Pre Pad 3% CC	Max		5 Min.
Volume 23.5	Volume	From	To	Pad 1.25 P82 CF	Min		10 Min.
Max Press 300	Max Press	From	To	Frac	Avg		15 Min.
Well Connection PC	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 369.70	Packer Depth	From	To	Flush 22.2	Gas Volume		Total Load

Service Units	83353		77686	86779		1996	1986				
Driver Names	MARRH		McGowan			Trevino					

[illegible]

**10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383**