

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or  
Recompletion Date \_\_\_\_\_ Recompletion Date \_\_\_\_\_

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

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

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  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:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
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 <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	HICKERT FARMS 1-27
Doc ID	1463460

All Electric Logs Run

COMPENSATED DENSITY/NEUTRON LOG
DUAL INDUCTION LOG
MICRO LOG
SONIC LOG

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	HICKERT FARMS 1-27
Doc ID	1463460

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	12.25	8.625	23	349	60/40 POZM	275	3% CC, 1/4#CF
Surface	12.25	8.625	23	349	COMMON	100	TOP OFF
Production	7.875	5.5	15	3982	ACONN	350	3%CC
Production	7.875	5.5	15	3982	AA-2	150	10%Salt, 10%Gypsum
Production	7.875	5.5	15	3982	60/40	30	@ Rathole

# KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 \* WICHITA, KS

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.  
 LEASE \* 1-27 HICKERT FARMS  
 FIELD WILDCAT  
 LOCATION 1199' ENL & 2452' FEL  
 SEC 27 TWP 6S RGE 25W  
 COUNTY GRAHAM STATE KANSAS  
 CONTRACTOR L. D. DRILLING, INC.  
 SPUD 2-26-19 COMP 3-7-19  
 LTD 3996 LTD 3978  
 MUD UP 3440 TYPE MUD CHEMICAL

ELEVATIONS  
 NO 2562  
 OF  
 CL 2557  
 Measurements Are All  
 From 2562 KB  
 CASING  
 SIZE 8 5/8" @ 399'  
 PRODUCTION 5 1/2" @  
 ELECTRICAL SURVEYS  
 DUAL IND., DENS-N, MICRO,  
 SONIC

SAMPLES SAVED FROM 3480 TO 3996  
 DRILLING TIME KEPT FROM 3300 TO 3996  
 SAMPLES EXAMINED FROM 3480 TO 3996  
 GEOLOGICAL SUPERVISION FROM 3000 TO 3996  
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2167 + 395	2167 + 395
B/ANH.	2200 + 362	2199 + 363
HEEBNER	3658 + 1096	3658 + 1096
LANSING	3697 - 1135	3695 - 1133
B/KC	3882 - 1320	3883 - 1321



REMARKS

2-26-19 SPUD  
 2-27 @ 350'  
 2-28 @ 350'  
 3-1 @ 1300'  
 3-2 @ 2585'  
 3-3 @ 3310'  
 3-4 @ 3735'  
 3-5 @ 3855'  
 3-6 @ 3928'  
 3-7 @ 3996'

API: 15-065-24147

RTD 3996 LTD 3978

The difference appears to be fill,  
 all tops appear to match Drilling Depth.

LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Coal
- Dolomite

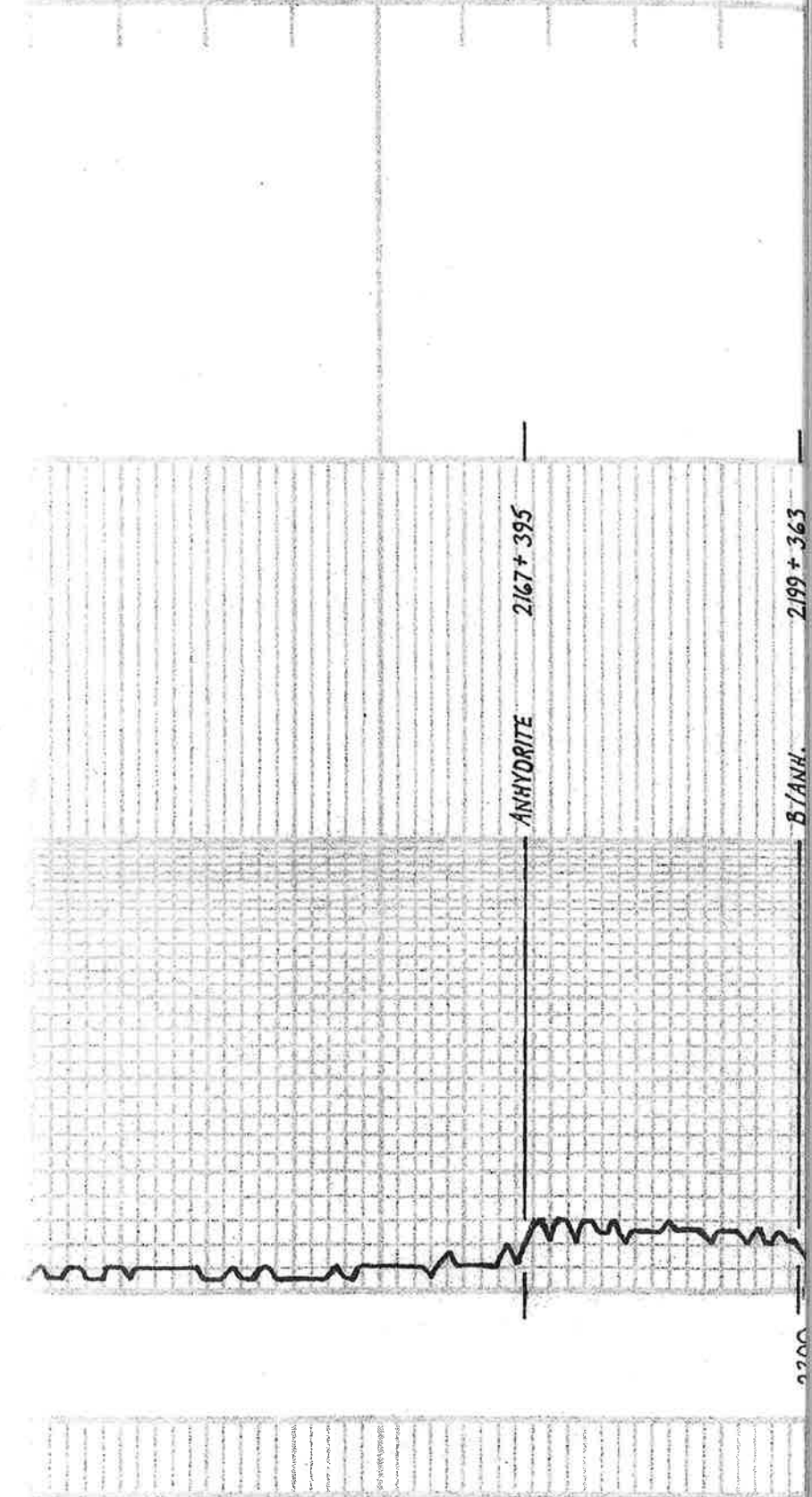
DRILLING TIME IN MINUTES PER FOOT  
 (Index of Penetration increases)

DEPTH  
 2100

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS



Sh. Blue-G

Ls. G. Foss.

Sh. Rd.

Ls. w/ Sh. Foss w/ Org. A

Sh. Rd.

Ls. w/ Ltg. V. Sh. Foss. Sil. A

Ls. w/ Foss. Colonic

Ls. w/ Foss. Colonic

HEESNER  
Sh. Blue-G

3658-1096

Sh. Light V. Sh. Silly

Ls. w/ Sh. Foss. Sil. A

Sh. Rd.

LANSING 3695-1133

Ls. w/ col. F. V. Sh. DEAR BLUE HAY SH  
V. Sh. Foss. Noodor

Ls. w/ Ltg. Sil. Foss. Sil. A

Sh. Rd.

Ls. w/ Ltg. V. Sh. Foss.

Sh. Rd.

Ls. w/ Foss. col. - Sil. Foss. F. V. Sh. Noodor  
DEAR BLUE HAY SH V. Sh. Foss.

Sh. Rd.

Ls. w/ Sh. Foss. Chly.

Sh. Rd.

Ls. w/ Ltg. V. Sh. A

Sh. Rd.

Ls. w/ Ltg. col. Sh. Foss. P. V. Sh. Noodor  
DEAR SH V. Sh. Foss.

Ls. w/ Ltg. Foss. F. V. Sh. Noodor  
DEAR SH V. Sh. Foss.

Ls. w/ Sh. Foss. Foss. F. V. Sh. Noodor  
DEAR SH V. Sh. Foss.

Ls. w/ Sh. Foss. Foss. F. V. Sh. Noodor  
DEAR SH V. Sh. Foss.

Ls. w/ Sil. A

Ls. w/ V. Sh. A

Sh. Rd.

Sh. Rd.

Sh. Rd.

Ls. w/ Ltg. V. Sh. Foss. Sil. A

Sh. Rd.

Ls. w/ Sh. Foss. Foss. Sil. A. P. V. Sh. Noodor  
DEAR SH V. Sh. Foss.

Sh. Rd.

Ls. w/ V. Sh. Foss. Sil. Chly.

Ls. w/ V. Sh. Foss. V. Sh. Foss. - Colonic

B/KC

3883-1321

Sh. Rd.

Ls. w/ Ltg. Sil. Blue-G. V. Sh. Foss. Sil. Rd.

Sh. Blue-G

Ls. w/ V. Sh. A

3600

3700

3800

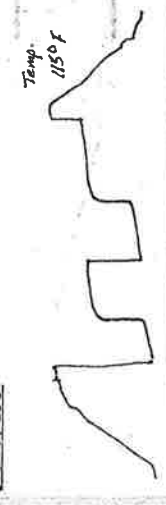
3900



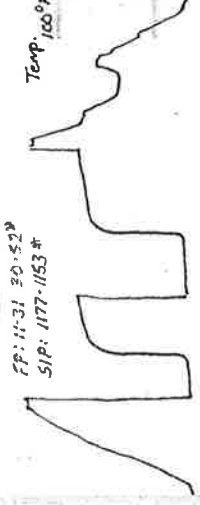
VIS: 58 WT: 8.1  
WL: 72 CW: 1100

VIS: 57 WT: 7.0  
WL: 72 CW: 1100

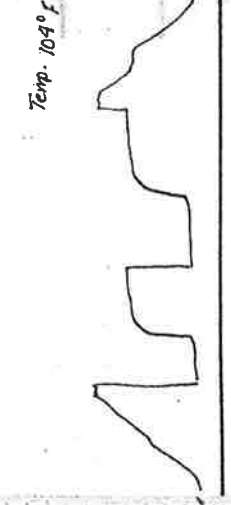
DST (1) 3687-3735  
15' Open: Bottom bucket 11 min.  
24' Open: " " 13 "  
30-45-45-60  
Rec. 83' MW (70' w/ 30' M)  
378' VSMW (97' w/ 31' M)  
63' MW (70' w/ 30' M)  
TI: 528'  
RW: 10' 18" F  
FP: 16' 15" 119-249 #  
RV: 1081 @ 113' E  
CIC: 52200  
SIP: 1152-1127 \*



DST (2) 3743-3770  
15' Open: Bottom bucket 27 min.  
24' Open: " " 28 "  
30-45-45-60  
Rec. 189' G.I.P.  
20' CO 338 G.I.W. 60"  
20' MCO (75' @ 51' G. 20' M)  
63' MCO (65' @ 51' G. 30' M)  
TI: 103'  
FP: 11-31 30-52 #  
SIP: 1177-1153 \*



DST (3) 3795-3880  
15' Open: Tool St. 20', blow built to 6 1/4"  
24' Open: Blow built to 5"  
30-45-45-60  
Rec. 118' VSOCH (31' @ 197' M.W.)  
31' @ 197' M.W.  
FP: 25-93 44-67 #  
SIP: 1232-1203 \*



sol. Sky sh. H blue-g. Y. G. S. L. by. S. R. D.

Sh. blue-g.

ls. G. VSDA

Sh. Pl. Purple.

ls. T. w/ sh. foss w/ Pl. sh. st. k.

Sh. Pl.

ls. H. G. foss. St. A

Sh. Pl. B. S. H.

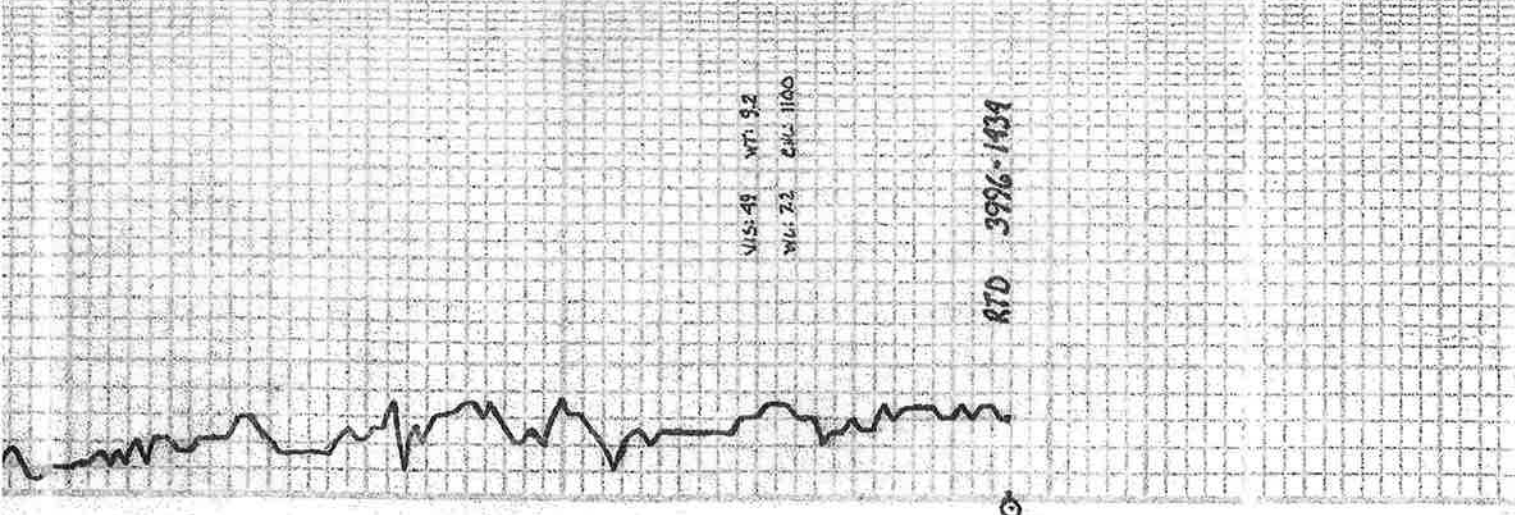
ls. G. VSD. Foss.

Sh. Pl.

ls. wh. lig. w/ Pl. A. Foss.

sh. Pl. Yellow Gr.

3900



V15:49 VTI 92

W16:72 2412 1100

RTD 3996-1434

4000



**Company: L. D. Drilling, Inc**  
**Lease: Hickert Farms #1-27**

SEC: 27 TWN: 6S RNG: 25W  
 County: GRAHAM  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2559 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 129

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 March  
**04**  
 2019

**DST #1**      **Formation: LKC A and B zone**      **Test Interval: 3687 - 3735'**      **Total Depth: 3735'**  
 Time On: 08:25 03/04      Time Off: 16:14 03/04  
 Time On Bottom: 11:07 03/04      Time Off Bottom: 14:07 03/04

Electronic Volume Estimate:  
 589'

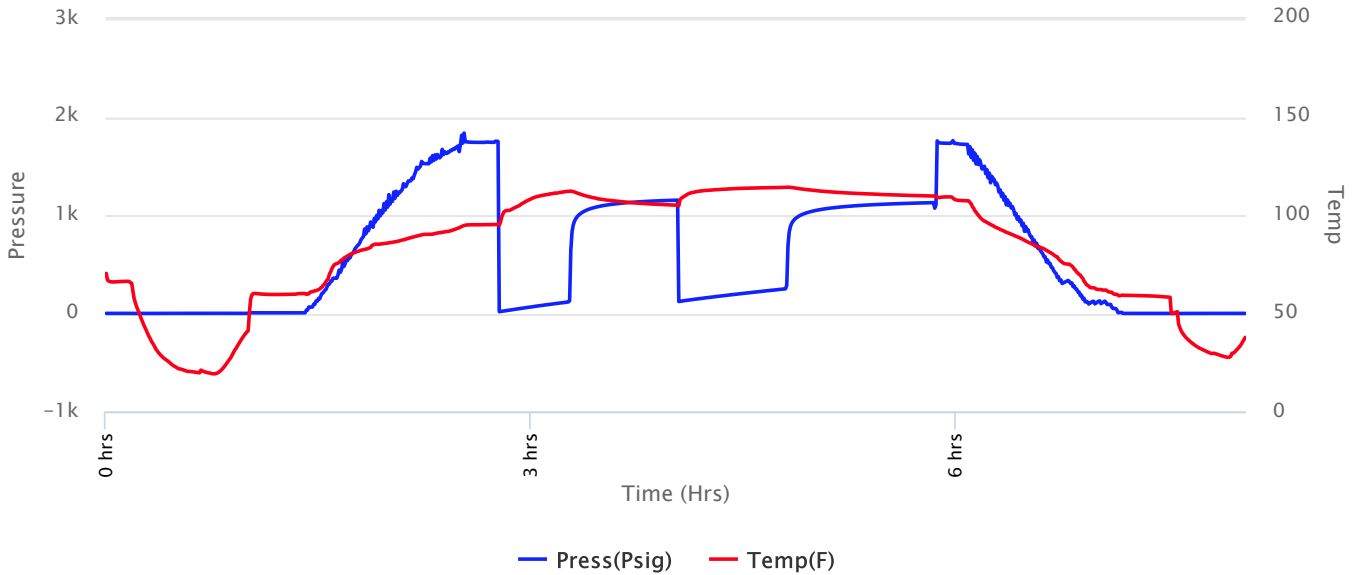
1st Open  
 Minutes: 30  
 Current Reading:  
 27.4" at 30 min  
 Max Reading: 27.4"

1st Close  
 Minutes: 45  
 Current Reading:  
 0" at 45 min  
 Max Reading: .1"

2nd Open  
 Minutes: 45  
 Current Reading:  
 34.2" at 45 min  
 Max Reading: 34.2"

2nd Close  
 Minutes: 60  
 Current Reading:  
 .1" at 60 min  
 Max Reading: .1"

Inside Recorder







**Company: L. D. Drilling, Inc**  
**Lease: Hickert Farms #1-27**

SEC: 27 TWN: 6S RNG: 25W  
 County: GRAHAM  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2559 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 129

**Operation:**  
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**DATE**  
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 Time On: 08:25 03/04      Time Off: 16:14 03/04  
 Time On Bottom: 11:07 03/04      Time Off Bottom: 14:07 03/04

Recovered

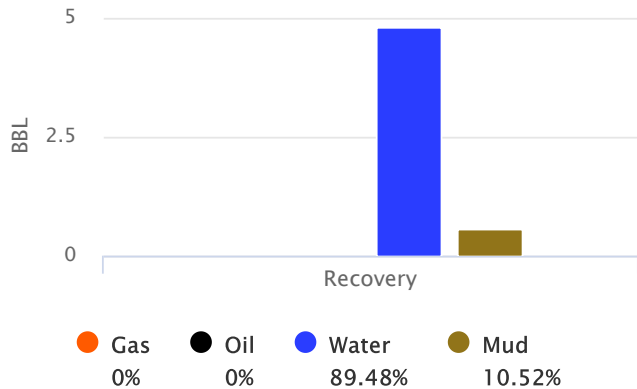
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
83	0.85158	HMCW	0	0	70	30
378	3.87828	SLMCW	0	0	97	3
63	0.64638	HMCW	0	0	70	30

Total Recovered: 524 ft  
 Total Barrels Recovered: 5.37624

Reversed Out  
 NO

Initial Hydrostatic Pressure	1741	PSI
Initial Flow	16 to 115	PSI
<b>Initial Closed in Pressure</b>	<b>1152</b>	<b>PSI</b>
Final Flow Pressure	119 to 249	PSI
<b>Final Closed in Pressure</b>	<b>1127</b>	<b>PSI</b>
Final Hydrostatic Pressure	1735	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	2.2	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: L. D. Drilling, Inc**  
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SEC: 27 TWN: 6S RNG: 25W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2559 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 129

**Operation:**

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pressures

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<b>DST #1</b>	<b>Formation: LKC A and B zone</b>	<b>Test Interval: 3687 - 3735'</b>	<b>Total Depth: 3735'</b>
	Time On: 08:25 03/04	Time Off: 16:14 03/04	
	Time On Bottom: 11:07 03/04	Time Off Bottom: 14:07 03/04	

**BUCKET MEASUREMENT:**

1st Open: 1/2" Bob in 11 min  
1st Close: Built to wsb  
2nd Open: 1/2" Bob in 13 min  
2nd Close: Built to wsb

**REMARKS:**

oil spec in tool sample

Tool Sample: 0% Gas 0% Oil 80% Water 20% Mud

Ph: 7

Measured RW: .4 @ 18 degrees °F

RW at Formation Temp: 0.081 @ 115 °F

Chlorides: 59200 ppm



**Company: L. D. Drilling, Inc**  
**Lease: Hickert Farms #1-27**

SEC: 27 TWN: 6S RNG: 25W  
 County: GRAHAM  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2559 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 129

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 March  
**04**  
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**DST #1**      **Formation: LKC A and B zone**      **Test Interval: 3687 - 3735'**      **Total Depth: 3735'**  
 Time On: 08:25 03/04      Time Off: 16:14 03/04  
 Time On Bottom: 11:07 03/04      Time Off Bottom: 14:07 03/04

**Down Hole Makeup**

<b>Heads Up:</b> 30.14 FT	<b>Packer 1:</b> 3682 FT
<b>Drill Pipe:</b> 3684.57 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 3687 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3671.42 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3724 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

**Total Anchor:** 48

**Anchor Makeup**

**Packer Sub:** 1 FT

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

**Change Over:** 1 FT

**Drill Pipe: (in anchor):** 31.5 FT  
*ID-3 1/4*

**Change Over:** .5 FT

**Perforations: (below):** 12 FT  
*4 1/2-FH*



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SEC: 27 TWN: 6S RNG: 25W  
 County: GRAHAM  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2559 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 129

**Operation:**

Uploading recovery &  
 pressures

**DATE**

March  
**04**  
 2019

**DST #1**      **Formation: LKC A**      **Test Interval: 3687 -**      **Total Depth: 3735'**  
                   **and B zone**                               **3735'**  
 Time On: 08:25 03/04      Time Off: 16:14 03/04  
 Time On Bottom: 11:07 03/04      Time Off Bottom: 14:07 03/04

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.4      **Viscosity:** 28      **Filtrate:** N/c      **Chlorides:** 29000 ppm



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SEC: 27 TWN: 6S RNG: 25W  
 County: GRAHAM  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2559 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 129

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 March  
**05**  
 2019

**DST #2**    **Formation: LKC D-F**    **Test Interval: 3743 - 3770'**    **Total Depth: 3770'**  
 Time On: 00:12 03/05    Time Off: 07:49 03/05  
 Time On Bottom: 02:20 03/05    Time Off Bottom: 05:20 03/05

Electronic Volume Estimate:  
 300'

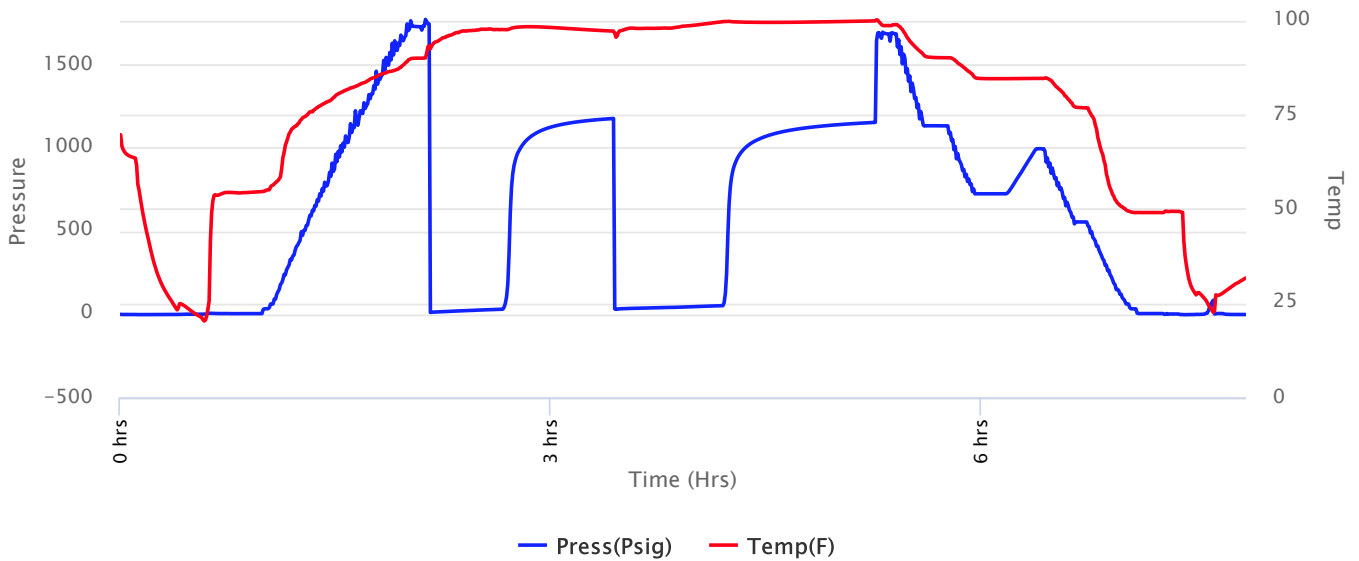
1st Open  
 Minutes: 30  
 Current Reading:  
 12.9" at 30 min  
 Max Reading: 12.9"

1st Close  
 Minutes: 45  
 Current Reading:  
 1" at 45 min  
 Max Reading: 1"

2nd Open  
 Minutes: 45  
 Current Reading:  
 16.4" at 45 min  
 Max Reading: 16.4"

2nd Close  
 Minutes: 60  
 Current Reading:  
 .25" at 60 min  
 Max Reading: .25"

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Hickert Farms #1-27**

SEC: 27 TWN: 6S RNG: 25W  
 County: GRAHAM  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2559 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 129

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 March  
**05**  
 2019

**DST #2**      **Formation: LKC D-F**      **Test Interval: 3743 - 3770'**      **Total Depth: 3770'**  
 Time On: 00:12 03/05      Time Off: 07:49 03/05  
 Time On Bottom: 02:20 03/05      Time Off Bottom: 05:20 03/05

Recovered

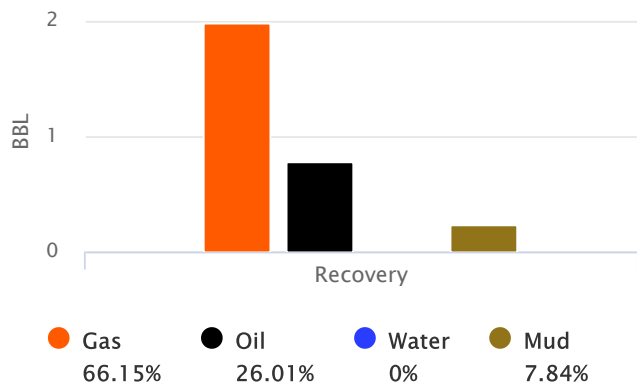
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
189	1.93914	G	100	0	0	0
20	0.2052	O	0	100	0	0
20	0.2052	SLGCMCO	5	75	0	20
63	0.64638	SLGCHMCO	5	65	0	30

Total Recovered: 292 ft  
 Total Barrels Recovered: 2.99592

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	1729	PSI
Initial Flow	11 to 31	PSI
<b>Initial Closed in Pressure</b>	<b>1177</b>	<b>PSI</b>
Final Flow Pressure	30 to 52	PSI
<b>Final Closed in Pressure</b>	<b>1153</b>	<b>PSI</b>
Final Hydrostatic Pressure	1693	PSI
Temperature	100	°F
Pressure Change Initial Close / Final Close	2.0	%

**Recovery at a glance**



GIP cubic foot volume: 11.12636



**Company: L. D. Drilling, Inc**  
**Lease: Hickert Farms #1-27**

SEC: 27 TWN: 6S RNG: 25W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2559 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 129

**Operation:**

Uploading recovery &  
pressures

**DATE**

March

**05**

2019

**DST #2      Formation: LKC D-F      Test Interval: 3743 -      Total Depth: 3770'**  
**3770'**

Time On: 00:12 03/05

Time Off: 07:49 03/05

Time On Bottom: 02:20 03/05

Time Off Bottom: 05:20 03/05

**BUCKET MEASUREMENT:**

1st Open: 1/4" bib in 27 min

1st Close: Built to 1"

2nd Open: 1/4" Bob in 28 min

2nd Close: Built to 1/4"

**REMARKS:**

Tool Sample: 5% Gas 75% Oil 0% Water 20% Mud

Gravity: 33.8 @ 60 °F



**Company: L. D. Drilling, Inc**  
**Lease: Hickert Farms #1-27**

SEC: 27 TWN: 6S RNG: 25W  
 County: GRAHAM  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2559 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 129

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 March  
**05**  
 2019

**DST #2**      **Formation: LKC D-F**      **Test Interval: 3743 - 3770'**      **Total Depth: 3770'**  
 Time On: 00:12 03/05      Time Off: 07:49 03/05  
 Time On Bottom: 02:20 03/05      Time Off Bottom: 05:20 03/05

**Down Hole Makeup**

<b>Heads Up:</b> 5.1300000000001 FT	<b>Packer 1:</b> 3738 FT
<b>Drill Pipe:</b> 3715.56 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 3743 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3727.42 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3747 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

**Total Anchor:** 27

**Anchor Makeup**

**Packer Sub:** 1 FT

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

**Change Over:** FT

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

**Change Over:** FT

**Perforations: (below):** 24 FT  
*4 1/2-FH*





**Company: L. D. Drilling, Inc**  
**Lease: Hickert Farms #1-27**

SEC: 27 TWN: 6S RNG: 25W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2559 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 129

**Operation:**

Uploading recovery &  
pressures

**DATE**

March

**05**

2019

**DST #2**      **Formation: LKC D-F**      **Test Interval: 3743 -**  
**3770'**      **Total Depth: 3770'**

Time On: 00:12 03/05

Time Off: 07:49 03/05

Time On Bottom: 02:20 03/05

Time Off Bottom: 05:20 03/05

**Mud Properties**

**Mud Type:** Chemical

**Weight:** 8.9

**Viscosity:** 58

**Filtrate:** 7.2

**Chlorides:** 1100 ppm



**Company: L. D. Drilling, Inc**  
**Lease: Hickert Farms #1-27**

SEC: 27 TWN: 6S RNG: 25W  
 County: GRAHAM  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2559 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 129

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 March  
**05**  
 2019

**DST #3**      **Formation: LKC H and K**      **Test Interval: 3795 - 3880'**      **Total Depth: 3880'**  
 Time On: 18:34 03/05      Time Off: 01:36 03/06  
 Time On Bottom: 20:44 03/05      Time Off Bottom: 23:44 03/05

Electronic Volume Estimate:  
 113'

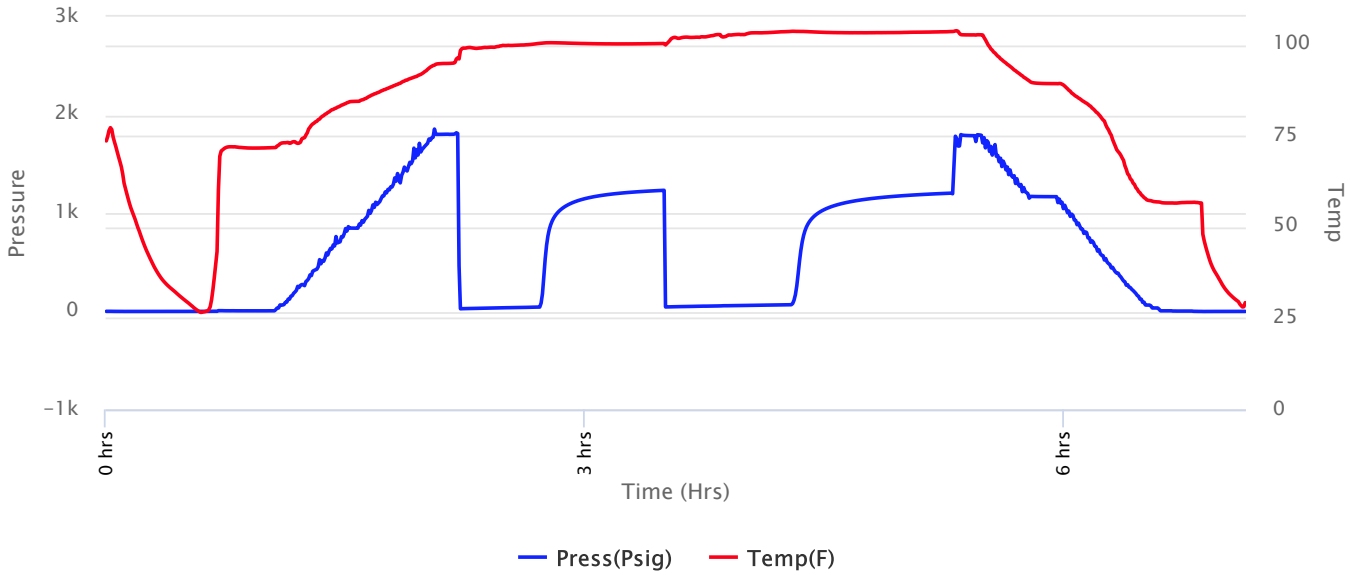
1st Open  
 Minutes: 30  
 Current Reading:  
 6.2" at 30 min  
 Max Reading: 6.2"

1st Close  
 Minutes: 45  
 Current Reading:  
 0" at 45 min  
 Max Reading: .1"

2nd Open  
 Minutes: 45  
 Current Reading:  
 4.9" at 45 min  
 Max Reading: 4.9"

2nd Close  
 Minutes: 60  
 Current Reading:  
 0" at 60 min  
 Max Reading: 0"

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Hickert Farms #1-27**

SEC: 27 TWN: 6S RNG: 25W  
 County: GRAHAM  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc - Rig 1  
 Elevation: 2559 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 129

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 March  
**05**  
 2019

**DST #3**      **Formation: LKC H and K**      **Test Interval: 3795 - 3880'**      **Total Depth: 3880'**  
 Time On: 18:34 03/05      Time Off: 01:36 03/06  
 Time On Bottom: 20:44 03/05      Time Off Bottom: 23:44 03/05

Recovered

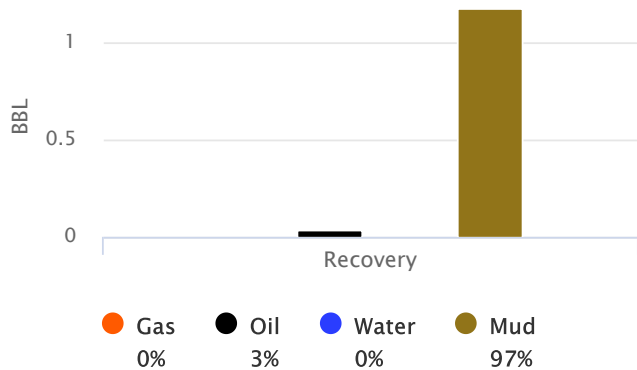
Foot	BBSL	Description of Fluid	Gas %	Oil %	Water %	Mud %
55	0.5643	SLOCM	0	3	0	97
63	0.64638	SLOCM	0	3	0	97

Total Recovered: 118 ft  
 Total Barrels Recovered: 1.21068

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	1804	PSI
Initial Flow	25 to 43	PSI
<b>Initial Closed in Pressure</b>	<b>1232</b>	<b>PSI</b>
Final Flow Pressure	44 to 67	PSI
<b>Final Closed in Pressure</b>	<b>1203</b>	<b>PSI</b>
Final Hydrostatic Pressure	1795	PSI
Temperature	104	°F
Pressure Change Initial Close / Final Close	2.3	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: L. D. Drilling, Inc**  
**Lease: Hickert Farms #1-27**

SEC: 27 TWN: 6S RNG: 25W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc -  
Rig 1  
Elevation: 2559 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 129

**Operation:**

Uploading recovery &  
pressures

**DATE**

March

**05**

2019

<b>DST #3</b>	<b>Formation: LKC H and K</b>	<b>Test Interval: 3795 - 3880'</b>	<b>Total Depth: 3880'</b>
	Time On: 18:34 03/05	Time Off: 01:36 03/06	
	Time On Bottom: 20:44 03/05	Time Off Bottom: 23:44 03/05	

**BUCKET MEASUREMENT:**

1st Open: 2" built to 6 1/4"

1st Close: Built to wsb

2nd Open: Wsb built to 5"

2nd Close: Nobb

**REMARKS:**

20 ft slide to btm

Tool Sample: 0% Gas 3% Oil 0% Water 97% Mud



**Company: L. D. Drilling, Inc**  
**Lease: Hickert Farms #1-27**

SEC: 27 TWN: 6S RNG: 25W  
 County: GRAHAM  
 State: Kansas  
 Drilling Contractor: L. D. Drilling, Inc -  
 Rig 1  
 Elevation: 2559 EGL  
 Field Name: Wildcat  
 Pool: Infield  
 Job Number: 129

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 March  
**05**  
 2019

**DST #3**      **Formation: LKC H and K**      **Test Interval: 3795 - 3880'**      **Total Depth: 3880'**  
 Time On: 18:34 03/05      Time Off: 01:36 03/06  
 Time On Bottom: 20:44 03/05      Time Off Bottom: 23:44 03/05

**Down Hole Makeup**

<b>Heads Up:</b> 14.66 FT	<b>Packer 1:</b> 3790 FT
<b>Drill Pipe:</b> 3777.09 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 3795 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3779.42 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3863 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"

**Total Anchor:** 85

**Anchor Makeup**

**Packer Sub:** 1 FT

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

**Change Over:** .5 FT

**Drill Pipe: (in anchor):** 62.5 FT  
*ID-3 1/4*

**Change Over:** 1 FT

**Perforations: (below):** 18 FT  
*4 1/2-FH*



**Company: L. D. Drilling, Inc**  
**Lease: Hickert Farms #1-27**

SEC: 27 TWN: 6S RNG: 25W  
County: GRAHAM  
State: Kansas  
Drilling Contractor: L. D. Drilling, Inc - Rig 1  
Elevation: 2559 EGL  
Field Name: Wildcat  
Pool: Infield  
Job Number: 129

**Operation:**  
Uploading recovery & pressures

**DATE**  
March  
**05**  
2019

**DST #3      Formation: LKC H and K      Test Interval: 3795 - 3880'      Total Depth: 3880'**  
Time On: 18:34 03/05      Time Off: 01:36 03/06  
Time On Bottom: 20:44 03/05      Time Off Bottom: 23:44 03/05

**Mud Properties**

**Mud Type:** Chemical    **Weight:** 9    **Viscosity:** 57    **Filtrate:** 7.2    **Chlorides:** 1100 ppm



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

27-65-25W

FIELD SERVICE TICKET  
1718 17691 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <b>3/7/2019</b> DISTRICT <b>Pratt, 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>Hickert Form</b>		WELL NO. <b>1-27</b>					
ADDRESS		COUNTY <b>Graham</b>		STATE <b>KS</b>					
CITY		STATE		SERVICE CREW <b>Darin, Brett, Gilroy, D. S. 2</b>					
AUTHORIZED BY		JOB TYPE: <b>242/5 1/2 Long Strins</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
<b>19843</b>	<b>1 1/2</b>						<b>3/7</b>	<b>AM</b>	<b>8:00</b>
<b>21010</b>	<b>1/2</b>						<b>3/7</b>	<b>AM</b>	<b>1:30</b>
<b>19918</b>	<b>3/4</b>						<b>3/7</b>	<b>AM</b>	<b>6:15</b>
							<b>3/7</b>	<b>AM</b>	<b>7:45</b>
							<b>3/7</b>	<b>AM</b>	<b>8:30</b>
						MILES FROM STATION TO WELL	<b>196</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: *Ruby Papp*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP101	A-con Blend Common	SK	350		6,300 00	
CP105	DB2 Cement	SK	150		2,550 00	
CP103	60/40 Poz	SK	30		360 00	
CE102	Cellofloc	Lb	126		466 26	
CE109	Calcium Chloride	Lb	987		1,036 35	
CE200	Cement Gel	Lb	52		13 00	
CC105	C-41P	Lb	71		284 00	
CC111	SS1+	Lb	814		407 00	
CC113	Gypsum	Lb	705		528 75	
CC148	C-17	Lb	92		1,840 00	
CE201	Gilsonite	Lb	901		603 67	
CF1251	Auto Fill Flost Shoe, 5 1/2" (Blue)	Es	1		360 00	
CF607	Latch Down Plug & Baffle, 5 1/2" (Blue)	Es	1		400 00	
CF199	5 1/2" Basket (Blue)	Es	5		1,450 00	
CF1651	Turbolizer, 5 1/2" (Blue)	Es	10		1,100 00	
CC151	Mud Flush	Gal	1,000		1,500 00	
					SUB TOTAL	

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<i>11,500</i>

SERVICE REPRESENTATIVE <i>Darin</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>Ruby Papp</i>
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)	

FIELD SERVICE ORDER NO.





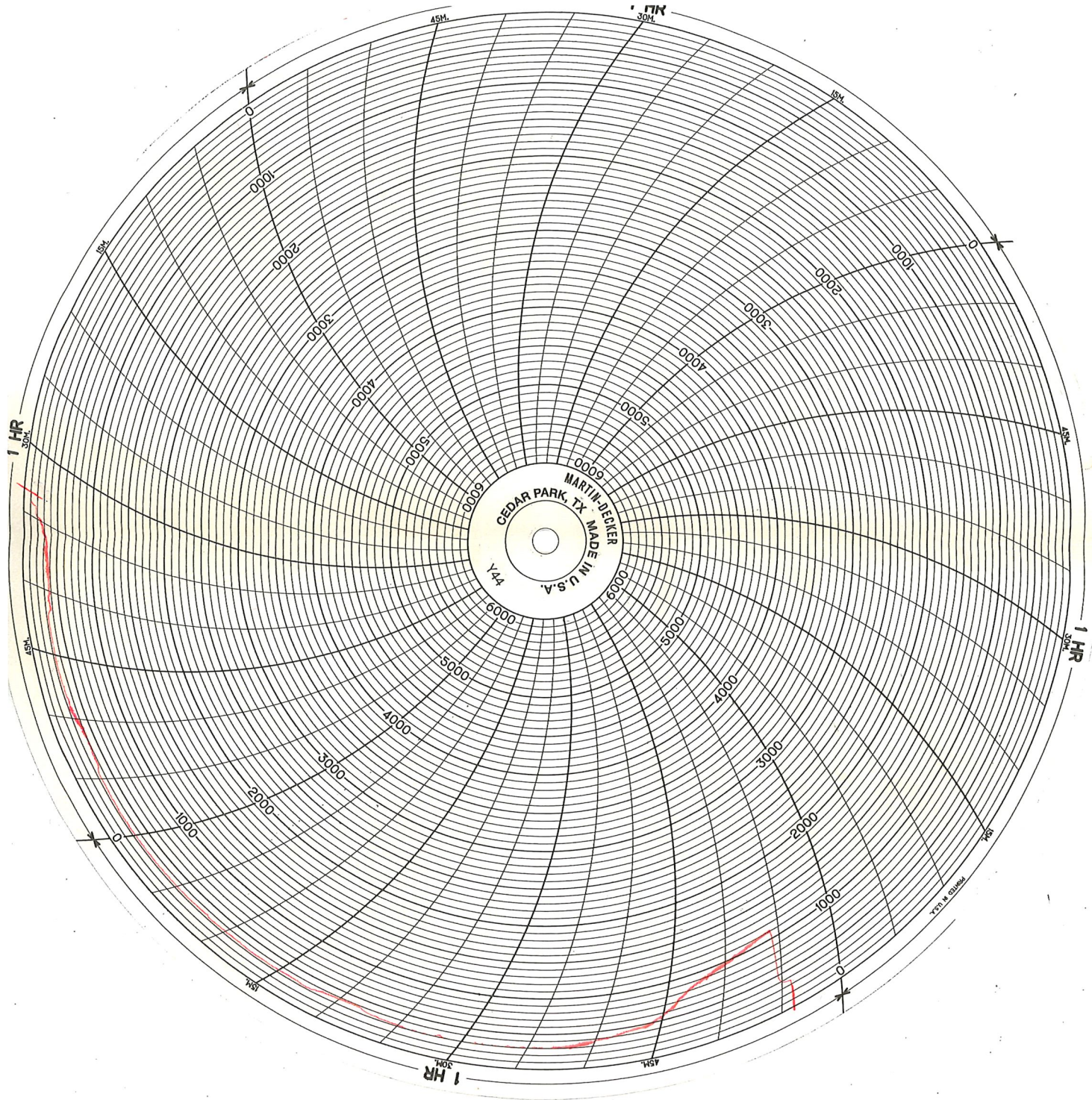
Customer <b>LD Drilling</b>	Lease No.	Date <b>3/7/2019</b>
Lease <b>Hickerr Farm</b>	Well # <b>1-27</b>	
Field Order # <b>17691</b>	Station <b>PT92115</b>	Casing <b>5 1/2</b>
Type Job <b>242/5 1/2 Longstring</b>	Depth	County <b>Greham</b>
	Formation <b>TD-3996</b>	State <b>KS</b>
		Legal Description <b>27-65-25w</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<b>5 1/2</b>								
Depth <b>3978</b>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <b>94.6</b>	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 <b>3963</b>	Packer Depth	From	To	Flush <b>Water</b>	Gas Volume		Total Load	

Customer Representative <b>Rick Popp</b>	Station Manager <b>Justin Westerman</b>	Treater <b>Darin Franklin</b>
--	---	-------------------------------

Service Units	<b>92911</b>	<b>78822</b>	<b>19843</b>	<b>19960</b>	<b>19918</b>	<b>70889</b>	<b>21010</b>				
Driver Names	<b>Darin</b>	<b>Brett</b>	<b>Brett</b>	<b>Gilley</b>	<b>Gilley</b>	<b>D992</b>	<b>D92</b>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>1:30am</b>					<b>ON LOCATION / safety meeting</b>
					<b>T-1, 2, 3, 4, 5, 12, 32, 52, 64, 74</b>
					<b>B-1, 11, 31, 51, 63, 73</b>
					<b>350SK A-con Blend common, 3% Calcium chloride, 0.25pps Celloflsike</b>
					<b>11.2 pps, 3.16 veld, 19.63 water</b>
					<b>150SK AA2 Cement, 10% salt, 10% Gypsum, 0.65% fluid loss, 0.5% defoamer</b>
					<b>0.25pps Celloflsike, 6pps Gilsomite</b>
					<b>14.8 pps, 1.54 veld, 6.51 water</b>
<b>6:20am</b>	<b>300</b>		<b>5</b>	<b>5</b>	<b>Pump 5 bbls water</b>
	<b>300</b>		<b>24</b>	<b>5</b>	<b>Pump 24 bbls Flush</b>
	<b>300</b>		<b>5</b>	<b>5</b>	<b>Pump 5 bbls water</b>
	<b>300</b>		<b>197</b>	<b>6</b>	<b>mix 350SK A-con</b>
	<b>300</b>		<b>41</b>	<b>6</b>	<b>mix 150SK AA2</b>
					<b>Shut down</b>
					<b>Wash pump &amp; lines &amp; release plug</b>
	<b>200</b>		<b>0</b>	<b>5</b>	<b>Start displacement</b>
	<b>500</b>		<b>60</b>	<b>5</b>	<b>Light Pressure</b>
	<b>800</b>		<b>84</b>	<b>3</b>	<b>Slow Rate</b>
					<b>circulate 20SK</b>
<b>7:40pm</b>	<b>1500</b>		<b>94</b>	<b>3</b>	<b>Bump Plug</b>
					<b>Flow - Hold</b>



03-07-19  
L.D. Drilling  
Hickert Farm 1-27  
Graham, KS  
Cement Longstring



Customer <b>LD Drilling</b>	Lease No.	Date <b>2/27/2019</b>
Lease <b>Hickert Farm</b>	Well # <b>1-27</b>	
Field Order # <b>17658</b>	Station <b>Pratt, KS</b>	Casing <b>8 5/8</b>
		Depth <b>352</b>
Type Job <b>242/8 5/8 Surface</b>	Formation <b>TD-352</b>	County <b>Greene</b>
		State <b>KS</b>
		Legal Description <b>27-65-250</b>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing <b>8 5/8</b>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <b>352</b>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <b>22.4</b>	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 <b>332</b>	Packer Depth	From	To	Flush <b>Water</b>	Gas Volume		Total Load

Customer Representative **Ricic Wilson** Station Manager **Justin Weskimen** Treater **Darin Franklin**

Service Units	<b>92911</b>	<b>37900</b>	<b>27463</b>	<b>19903</b>	<b>19862</b>				
Driver Names	<b>Darin</b>	<b>Csll</b>	<b>Brett</b>	<b>Wade</b>	<b>Wade</b>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>1:00pm</b>					<b>On location / Safety meeting</b>
					<b>275 sk 60/40 Poz, 3%cc, 1/4# CF</b>
					<b>14.8ppg, 1.21 veld, 5.18 water</b>
<b>7:30am</b>	<b>200</b>		<b>3</b>	<b>5</b>	<b>Pump 3 bbls water</b>
	<b>200</b>		<b>59</b>	<b>5</b>	<b>mix 275 sk cement</b>
	<b>200</b>		<b>21</b>	<b>3</b>	<b>Displace water</b>
<b>8:15pm</b>					<b>Shut in</b>
					<b>Cement Circulate to cells</b>
					<b>Job Complete/Darin drove</b>
					<b>Thank you!!!</b>



Customer <b>LD Drilling</b>	Lease No.	Date <b>2/1/2019</b>
Lease <b>Hickert Farm</b>	Well # <b>1-27</b>	
Field Order # <b>17689</b>	Station <b>Pratt, KS</b>	Casing
Type Job <b>242/ TOP OUT</b>	Formation	Depth
		County <b>Grisham</b>
		State <b>KS</b>
		Legal Description <b>27-65-25W</b>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad	Max		5 Min.
Volume	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	Gas Volume		Total Load

Customer Representative <b>Rick Wilson</b>	Station Manager <b>Justin Westerman</b>	Treater <b>Darin Franklin</b>
Service Units <b>92911 77684 86779 70959 21010</b>		
Driver Names <b>Darin McGraw McGraw Brian Brett</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:00pm					ON LOCATION / SS Pcty meeting
12:00pm		200	2	3	Pump 2 bbls water - establish circulation
		200	21	3	mix 100% common + 3% ac
12:30pm					Shut down
					Cement & circulate
					Job complete / Darin & crew
					Thank you!!!