

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

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. 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	POTTER 1-6
Doc ID	1482991

Tops

Name	Top	Datum
ANHYDRITE	1623	+728
BASE ANHYDRITE	1660	+691
HEEBNER	3700	-1349
LANSING	3744	-1393
BASE KANSAS CITY	4042	-1691
PAWNEE	4171	-1820
FORT SCOTT	4249	-1898
CHEROKEE	4274	-1923
MISSISSIPPI DOL	4361	-2010

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

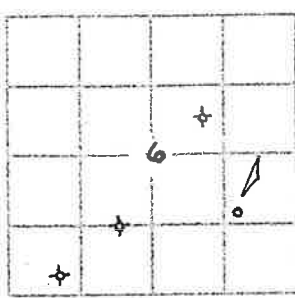
GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>L. D. DRILLING, INC.</u>	ELEVATIONS
LEASE <u>*1-6 POTTER</u>	KB. <u>2351</u>
FIELD <u>WILDCAT</u>	DF.
LOCATION <u>1495' FSL & 1215' FEL</u>	EL. <u>2346</u>
SEC <u>6 TWP. 18s RGE 24w</u>	Measurements Are All From <u>2351 KB</u>
COUNTY <u>Ness</u> STATE <u>KANSAS</u>	CASING
CONTRACTOR <u>L. D. DRILLING, INC.</u>	SURFACE <u>8 5/8" @ 330'</u>
SPUD <u>8-22-19</u> COMP. <u>8-31-19</u>	PRODUCTION
RTG. <u>4450</u> LTD. <u>4452</u>	ELECTRICAL SURVEYS
MUD VP. <u>3430</u> TYPE MUD. <u>CHEMICAL</u>	DUAL IND., DENS-N., MICRO

SAMPLES SAVED FROM	<u>3500</u> TO <u>4450</u>
DRILLING TIME KEPT FROM	<u>3500</u> TO <u>4450</u>
SAMPLES EXAMINED FROM	<u>3500</u> TO <u>4450</u>
GEOLOGICAL SUPERVISION FROM	<u>3700</u> TO <u>4450</u>
GEOLOGIST ON WELL	<u>Kim B. SHOEMAKER</u>

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1623+728	1628+723
B/ANH.	1660+691	1664+687
HEEBNER	3700-1349	3702-1351
LANSING	3744-1393	3746-1395
B/KC	4042-1691	4045-1694
PAWNEE	4171-1820	4167-1816
FORT SCOTT	4249-1898	4247-1896
CHEROKEE	4274-1923	4275-1924
MISSISSIPPI DOL.	4361-2010	4355-2004



REMARKS

8-22-19 SPUD
 8-23 @ 333'
 8-24 @ 1665'
 8-25 @ 2501'
 8-26 @ 3040'
 8-27 @ 3555'
 8-28 @ 3990'
 8-29 @ 4278'
 8-30 @ 4370'
 8-31 @ 4450'

API: 15-135-26075

LEGEND

- Anhydrite
- Salt
- Gambler
- Shale
- Coal
- Limestone
- Oil/Lime
- Clay
- Bentonite

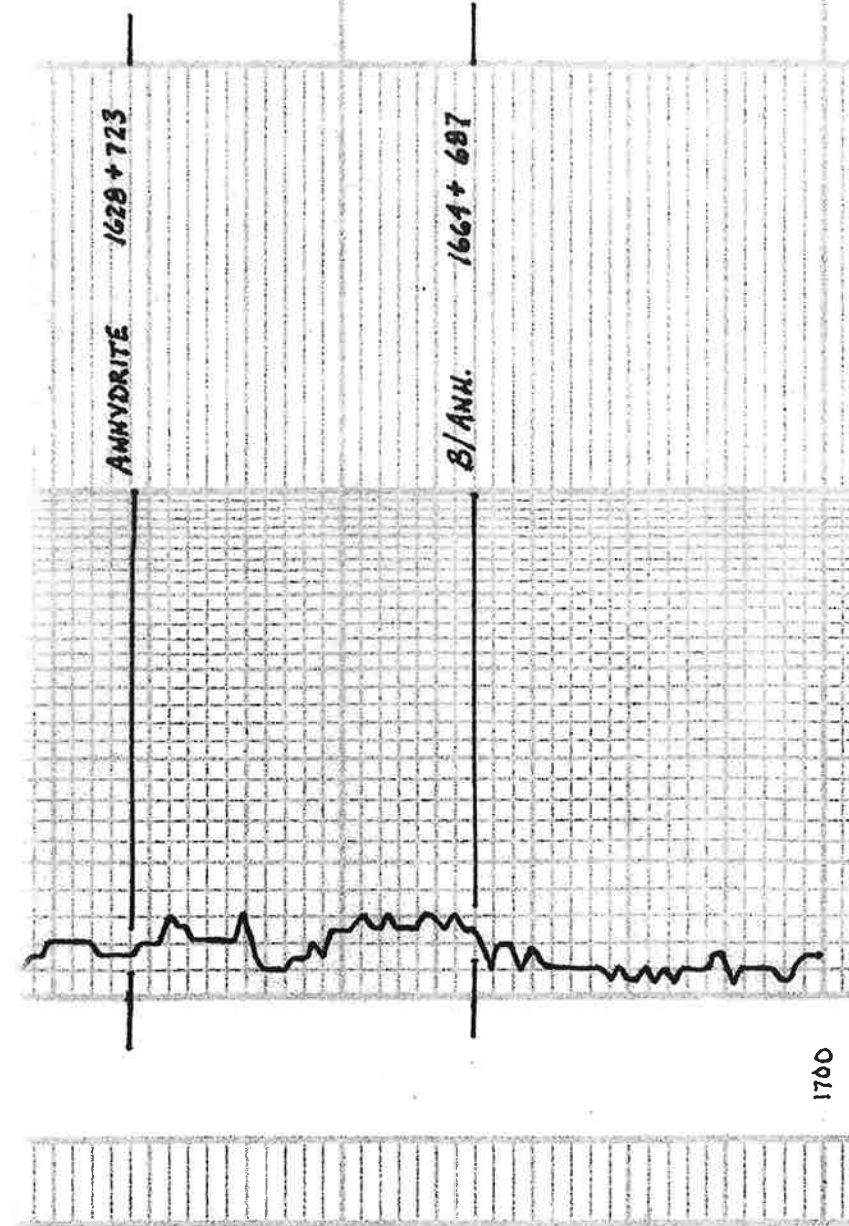
DRILLING TIME IN MINUTES PER FOOT
 Rate of Penetration increases



LITHOLOGY

REMARKS

SAMPLE DESCRIPTIONS



SD001-11

1700

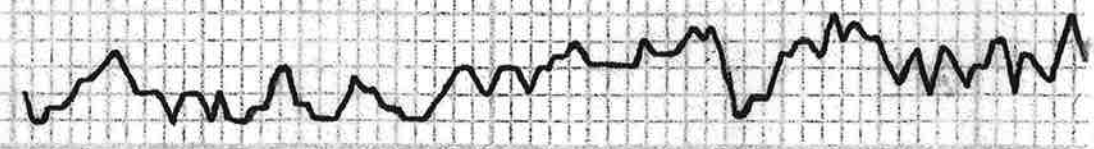
3500

3600

Samples are lagged

Sh G.
 ls. wt. Sil. Foss. vsil. chly.
 Sh. G.
 ls. To Foss.
 ls. To Foss. Sil. Foss.
 Sh. DE G.
 ls. G. vsil. A
 ls. To wt.ool. Foss.
 ls. wt. Sil. chly
 ls. G. Sil. Foss.
 Sh. LA G G.

WT: 87 Wt: 68
 Y/S: 52 CH: 2000



Sh. G G

ls. To Foss vsil. Galactic
 A. L G.
 ls. To Foss.
 ls. To G. Sil. Foss.
 ls. To G. Foss.
 ls. To wt.ool. Foss. vsil. A
 ls. To wt. vsil. Foss. Sil. chly.

HEEBNER 3702-1351
 Sh. Blue Carb.

ls. To wt.ool. vsil. Foss.
 Sh. LA G Blue.
 A. L G.
 ls. To wt. Sil. Foss. Sil. A
 ls. wt. vsil. Foss. vsil. A
 Sh. Blue G. Rd

LANSING 3796-1395

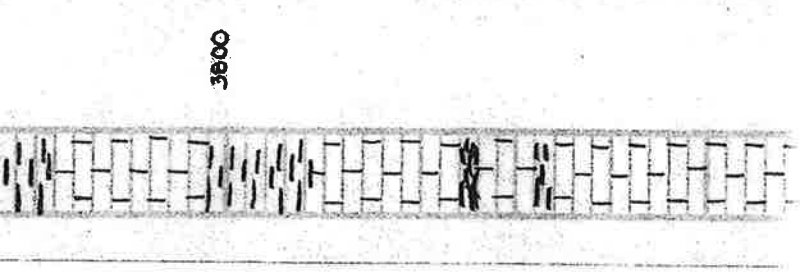
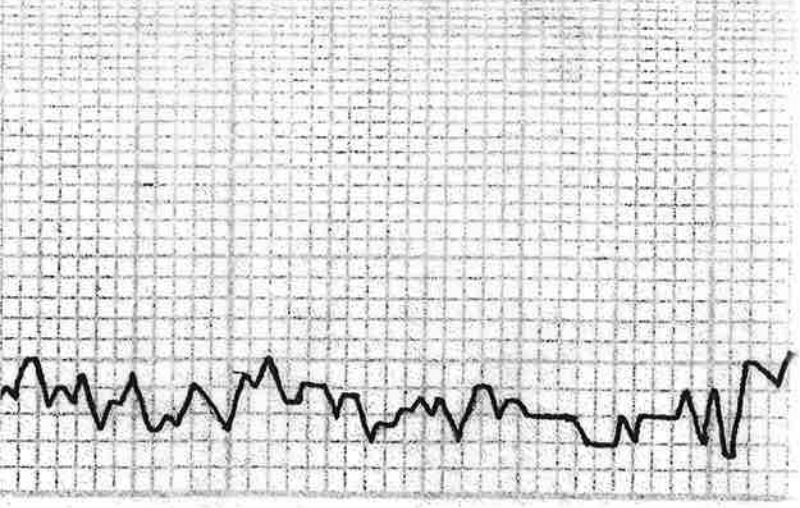
ls. To wt. Sil.ool. Sil. A
 ls. L G. vsil. Foss. vsil. A
 Sh. LA G Purple, Rd
 ls. To Sil. Foss.

V. 1006

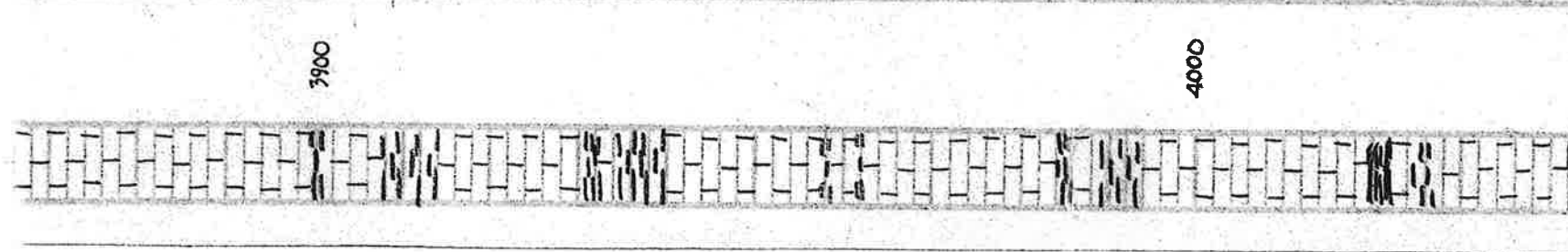
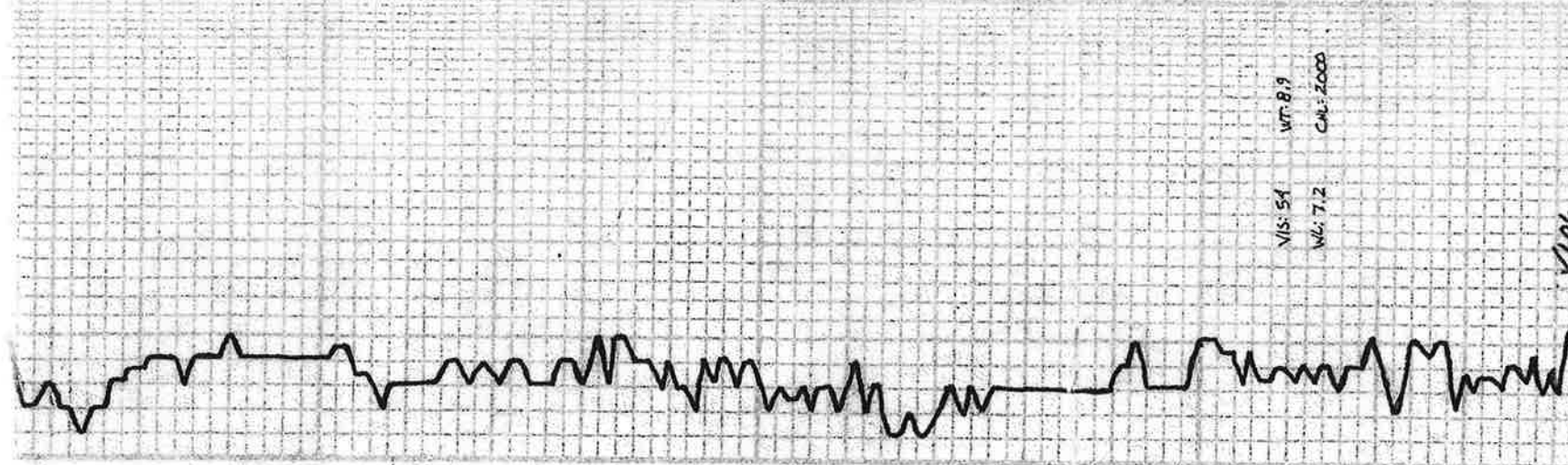
3700



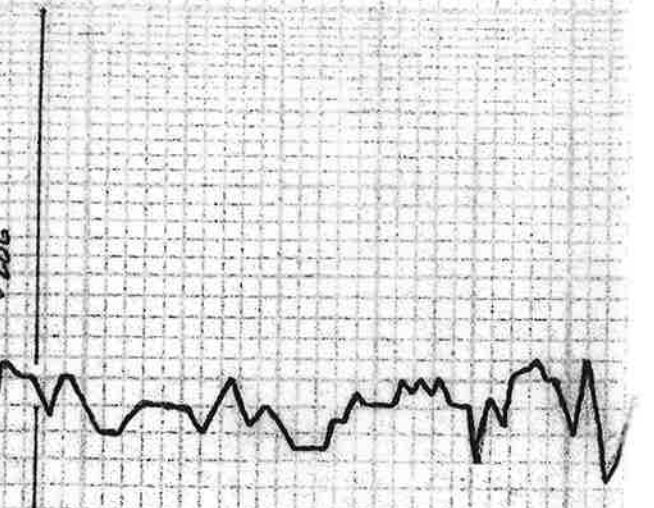
15. To Sl. Foss
 Δ Ltg.
 15. To wit. ool. Sl. Foss.
 Sh. Rd
 15. wt. Sl. Foss. VSi. Δ
 Sh. DEg.
 15. Bu. Li. Bl. VSi. Foss.
 15. wt. Sl. Foss. VSi. Chlly.
 15. wt. Sl. Foss. chlly.



15. To Ltg. Sl. ool. VSi. ool.
 15. wt. chlly.
 15. Ltg. VSi. Foss. VSi. Δ
 Sh. Lg.
 15. Li. Bl. VSi. Foss. Sl. Chalitic
 Sh. Ltg.
 Δ Lg. Ltg.
 15. To wit. Sl. Foss. Sl. Δ
 15. Ltg. VSi. Δ
 Sh. DEg.
 Sh. Ltg.
 15. wt. VSi. Foss. VSi. Δ
 Δ Lg.
 15. To Sl. Foss. Sl. Δ
 Sh. Blue G.
 15. To Ltg. Foss. ool. VSi. Chlly.
 15. To Sl. Δ
 Sh. DEg.
 Sh. Ltg.
 15. G. Sl. Foss.
 Δ Ltg.
 15. wt. Ltg. VSi. Foss. VSi. Δ
 Sh. Blue Carb.
 15. Bl. G. VSi. Foss.
 15. To Sl. Foss. Sl. chlly.



15. To Sl. Foss. Sl. chlly.
 Sh. DEg.
 15. To Foss. ool. Sl. Δ
 Sh. G. G.
 15. wt. Sl. Foss.
 Sh. Ltg. Slly.
 15. Bu. Sl. Δ
 15. To Sl. Foss. Sl. Δ
 Sh. Rd
 Sh. Rd



VSi. 54
 Wt. 8.9
 Wt. 7.2
 Cal. 2000

4095-1694

4106

Ls. 7/4 Sil. Foss. Sil. A.

Sh. Rd

4100

Sh. Rd

Ls. w/ Sil. Foss. Sil. A

Ls. Gy. V.Sil. Foss. V.Sil. A

Sh. Rd

Ls. w/ Sil. Foss. Sil. Chilly

Ls. Ltg. Silly

PANNEE 4167-1816
Sh. G

Ls. Tan Sil. A

Ls. Gy. V. Foss.

Ls. Gy. V. Foss.

Ls. v. Lgy. Silly

Ls. DEg. Foss. Silly

Sh. Rd

FORT SCOT 4247-1896

Ls. 7/4 Sil. Foss. Sil. A
V.L.Sil. Foss. Foss. Sil. Floor
F. Color

Ls. w/ Sil. Silly

Ls. w/ Sil. Foss. Sil. A
V.L. Sil. Foss. Foss. Sil. Floor
F. Color

CHEROKEE 4275-1924
Sh. Rd

Ls. w/ Ltg. V.Sil. Foss. V.Sil. Chilly

Ls. v. Lgy. Sil. A

Sh. DEg.

A. D. Orange
Ls. Ltg. V.Sil. Foss. V.Sil. Chilly.

Sh. Rd Blue

Ls. 7/4 Sil. A

Ls. 7/4 Sil. Chilly

Sh. Rd Blue

Sh. Blue-G. Yellow Inoc. Pyrite

A. w/ Yellow. Red. Foss. Tripartite

Sh. Purple Yellow Blue Silly

4300

V LOG

VIS: 59 WT: 9.2

WIL: 7.4 CHL: 2300

DST (1)

DST (2)

DST (1) 4236-4278

1370PEN: Blow built to 1/4"

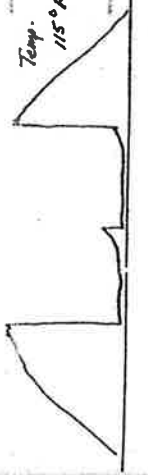
2400REW: " * * 1/4"

30-30-30-30

Tool Sample Rec. 5' Mud w/ Trace oil

SP: 11-13 14-16 *
SIP: 442-167 *

Temp. 115°F



DST (2) 4314-4370

1370PEN: Blow built to 1/2"

2400PEN: Surface Blow divd 3 1/2 min.

30-30-30-30

Tool Sample Rec. 5' Mud

SP: 12-25 15-35 *
SIP: 95-157 *
Temp. 114°F



VIS: 50 WT: 9.3

WIL: 8.0 CHL: 3000

Dol. Cr. Sil. Foss. Sil. Foss. F. P. V. p
Dol. Cr. Sil. Foss. Sil. Floor
Dull Floor F. Color
(4370, 30-30)

Dol. 7/4 Sil. Foss.


Dol. 7/4 Sil. Foss. Sil. A

Dol. Tan Ltg. Foss

Ls. w/ chilly

Dol. 7/4 Sil. Foss. Sil. Foss.

4400

LITHOLOGY 	DEPTH	DRILLING TIME MINUTES / FOOT Rate of Penetration (inches)	SAMPLE DESCRIPTIONS	REMARKS	
					73 wt. V. F. sh. Sil. Foss.
					2 wt
					70 wt. sh. Foss. - Veggy
Dd. wt. H.G. V. F. sh. Sil. Foss.					

RTD 4450-2099

COMPANY L. D. DRILLING, INC.
 LEASE # 1-6 POTER
 LOCATION 195 FSL 4 1215' FEL 6 W 18 R 24W
 COUNTY NESS STATE KANSAS
 ELEVATION 2351 KB



Company: L. D. Drilling, Inc
Lease: Potter #1-6

SEC: 6 TWN: 18S RNG: 24W
 County: NESS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2349 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 375
 API #: 15-135-26075-00-00

Operation:
 Uploading recovery & pressures

DATE
 August
29
 2019

DST #1 Formation: Ft. Scott Test Interval: 4236 - 4278' Total Depth: 4278'

Time On: 08:06 08/29 Time Off: 14:36 08/29
 Time On Bottom: 10:36 08/29 Time Off Bottom: 12:36 08/29

Electronic Volume Estimate:
 12'

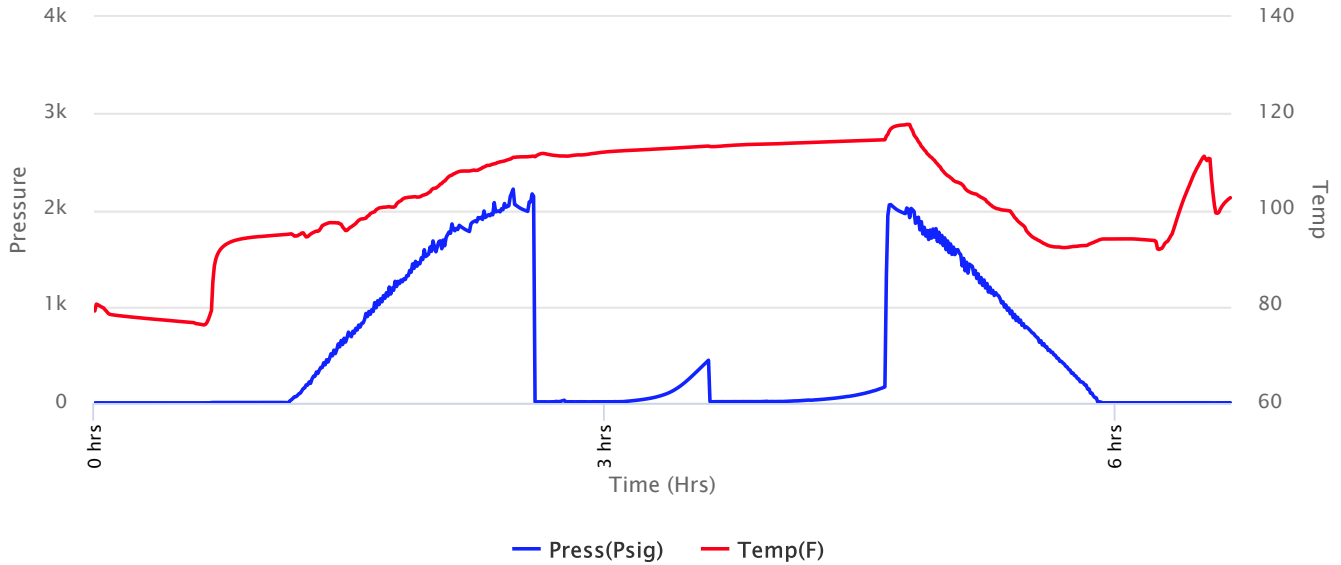
1st Open
 Minutes: 30
 Current Reading: .6" at 30 min
 Max Reading: .6"

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: Potter #1-6

SEC: 6 TWN: 18S RNG: 24W
 County: NESS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2349 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 375
 API #: 15-135-26075-00-00

Operation:
 Uploading recovery & pressures

DATE
 August
29
 2019

DST #1 **Formation: Ft. Scott** **Test Interval: 4236 - 4278'** **Total Depth: 4278'**
 Time On: 08:06 08/29 Time Off: 14:36 08/29
 Time On Bottom: 10:36 08/29 Time Off Bottom: 12:36 08/29

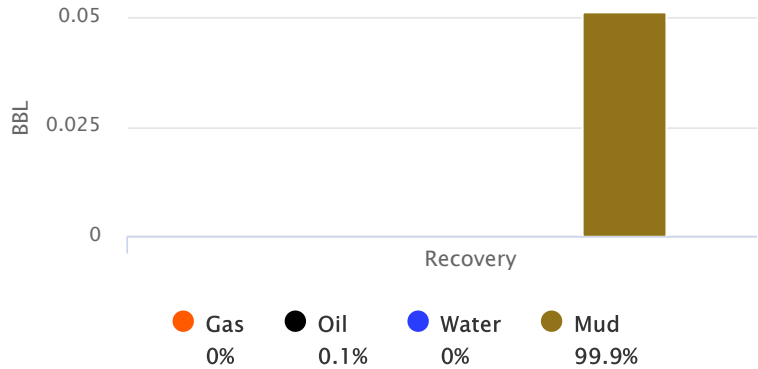
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
5	0.0513	M (trace O)	0	.1	0	99.9

Total Recovered: 5 ft
 Total Barrels Recovered: 0.0513

Reversed Out
NO

Initial Hydrostatic Pressure	1985	PSI
Initial Flow	11 to 13	PSI
Initial Closed in Pressure	442	PSI
Final Flow Pressure	14 to 16	PSI
Final Closed in Pressure	167	PSI
Final Hydrostatic Pressure	1980	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	62.4	%

Recovery at a glance



GIP cubic foot volume: 0



Company: L. D. Drilling, Inc
Lease: Potter #1-6

SEC: 6 TWN: 18S RNG: 24W
County: NESS
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2349 EGL
Field Name: Wildcat
Pool: Infield
Job Number: 375
API #: 15-135-26075-00-00

Operation:
Uploading recovery &
pressures

DATE
August
29
2019

DST #1 Formation: Ft. Scott Test Interval: 4236 - Total Depth: 4278'
4278'
Time On: 08:06 08/29 Time Off: 14:36 08/29
Time On Bottom: 10:36 08/29 Time Off Bottom: 12:36 08/29

BUCKET MEASUREMENT:

1st Open: Surface blow building to 1/4"
1st Close: No BB
2nd Open: Surface blow building to 1/4"
2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas .5% Oil 0% Water 99.5% Mud



Company: L. D. Drilling, Inc
Lease: Potter #1-6

SEC: 6 TWN: 18S RNG: 24W
 County: NESS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 2349 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 375
 API #: 15-135-26075-00-00

Operation:
 Uploading recovery &
 pressures

DATE August 29 2019
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DST #1 Formation: Ft. Scott Test Interval: 4236 - 4278' Total Depth: 4278'
 Time On: 08:06 08/29 Time Off: 14:36 08/29
 Time On Bottom: 10:36 08/29 Time Off Bottom: 12:36 08/29

Down Hole Makeup

Heads Up: 6.75000000000004 FT	Packer 1: 4231 FT
Drill Pipe: 4210.18 FT ID-3 1/4	Packer 2: 4236 FT
Weight Pipe: 0 FT ID-2 7/8	Top Recorder: 4220.42 FT
Collars: 0 FT ID-2 1/4	Bottom Recorder: 4241 FT
Test Tool: 33.57 FT ID-3 1/2-FH Jars Safety Joint	Well Bore Size: 7 7/8
Total Anchor: 42	Surface Choke: 1"
	Bottom Choke: 5/8"
<u>Anchor Makeup</u>	
Packer Sub: 1 FT	
Perforations: (top): 3 FT 4 1/2-FH	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT ID-3 1/4	
Change Over: 0 FT	
Perforations: (below): 38 FT 4 1/2-FH	



Company: L. D. Drilling, Inc

Lease: Potter #1-6

SEC: 6 TWN: 18S RNG: 24W
County: NESS
State: Kansas
Drilling Contractor: L. D. Drilling, Inc - Rig 1
Elevation: 2349 EGL
Field Name: Wildcat
Pool: Infield
Job Number: 375
API #: 15-135-26075-00-00

Operation:
Uploading recovery & pressures

DATE
August
29
2019

DST #1 Formation: Ft. Scott Test Interval: 4236 - 4278' Total Depth: 4278'
Time On: 08:06 08/29 Time Off: 14:36 08/29
Time On Bottom: 10:36 08/29 Time Off Bottom: 12:36 08/29

Mud Properties

Mud Type: Chemical Weight: 8.9 Viscosity: 54 Filtrate: 7.2 Chlorides: 2,000 ppm



Company: L. D. Drilling, Inc
Lease: Potter #1-6

SEC: 6 TWN: 18S RNG: 24W
 County: NESS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2349 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 375
 API #: 15-135-26075-00-00

Operation:
 Uploading recovery & pressures

DATE
 August
29
 2019

DST #1 Formation: Ft. Scott Test Interval: 4236 - 4278' Total Depth: 4278'
 Time On: 08:06 08/29 Time Off: 14:36 08/29
 Time On Bottom: 10:36 08/29 Time Off Bottom: 12:36 08/29

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: L. D. Drilling, Inc
Lease: Potter #1-6

SEC: 6 TWN: 18S RNG: 24W
 County: NESS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2349 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 375
 API #: 15-135-26075-00-00

Operation:
 Uploading recovery & pressures

DATE
 August
30
 2019

DST #2 **Formation: Mississippian** **Test Interval: 4314 - 4370'** **Total Depth: 4370'**
 Time On: 04:42 08/30 Time Off: 10:45 08/30
 Time On Bottom: 06:39 08/30 Time Off Bottom: 08:39 08/30

Electronic Volume Estimate:
 12'

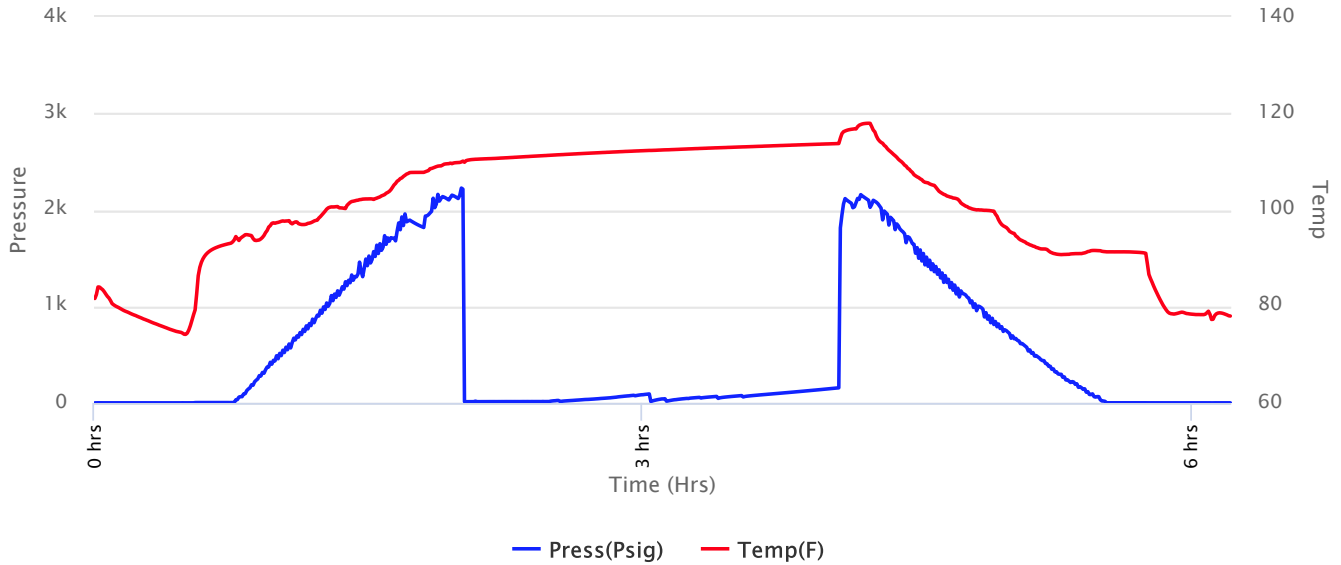
1st Open
 Minutes: 30
 Current Reading: .9" at 30 min
 Max Reading: 1.0"

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
 Minutes: 30
 Current Reading: 0" at 30 min
 Max Reading: 0"

Inside Recorder





Company: L. D. Drilling, Inc
Lease: Potter #1-6

SEC: 6 TWN: 18S RNG: 24W
 County: NESS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2349 EGL
 Field Name: Wildcat
 Pool: Infield
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 API #: 15-135-26075-00-00

Operation:
 Uploading recovery & pressures

DATE
 August
30
 2019

DST #2 **Formation: Mississippian** **Test Interval: 4314 - 4370'** **Total Depth: 4370'**
 Time On: 04:42 08/30 Time Off: 10:45 08/30
 Time On Bottom: 06:39 08/30 Time Off Bottom: 08:39 08/30

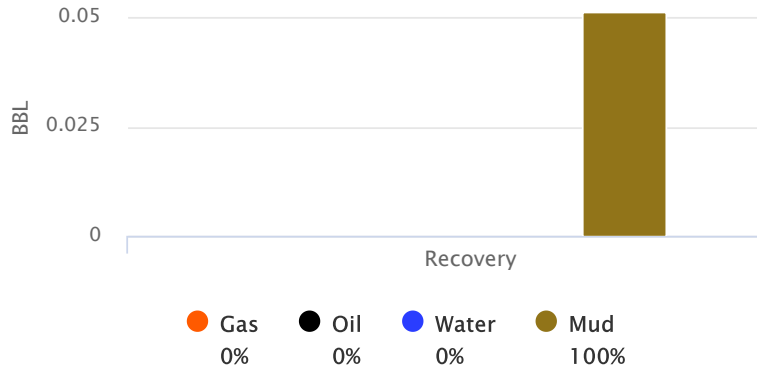
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
5	0.0513	M	0	0	0	100

Total Recovered: 5 ft
 Total Barrels Recovered: 0.0513

Reversed Out
NO

Initial Hydrostatic Pressure	2118	PSI
Initial Flow	12 to 25	PSI
Initial Closed in Pressure	93	PSI
Final Flow Pressure	15 to 75	PSI
Final Closed in Pressure	157	PSI
Final Hydrostatic Pressure	2117	PSI
Temperature	114	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 0



Company: L. D. Drilling, Inc
Lease: Potter #1-6

SEC: 6 TWN: 18S RNG: 24W
County: NESS
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2349 EGL
Field Name: Wildcat
Pool: Infield
Job Number: 375
API #: 15-135-26075-00-00

Operation:
Uploading recovery &
pressures

DATE
August
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BUCKET MEASUREMENT:

1st Open: Surface blow building to 1/2"
1st Close: No BB
2nd Open: Weak surface blow lasting 3 1/2 min.
2nd Close: No BB

REMARKS:

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



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Down Hole Makeup

Heads Up: 22.92 FT	Packer 1: 4308.73 FT
Drill Pipe: 4304.08 FT <i>ID-3 1/4</i>	Packer 2: 4313.73 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4298.15 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4352 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 56.27	Surface Choke: 1"
Anchor Makeup	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): 31.27 FT <i>ID-3 1/4</i>	
Change Over: 1 FT	
Perforations: (below): 19 FT <i>4 1/2-FH</i>	



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Mississippian **4370'**
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Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 59 **Filtrate:** 7.4 **Chlorides:** 2,300 ppm



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Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



BASICSM
ENERGY SERVICES

PRESSURE PUMPING & WIRELINE

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

TTMH
47

FIELD SERVICE TICKET
1718 18039 A

DATE _____ TICKET NO. _____

DATE OF JOB 8-13-19 DISTRICT Pratt		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 LD Drilling		LEASE Potter WELL NO. 1-6						
ADDRESS		COUNTY Ness STATE KS						
CITY STATE		SERVICE CREW MATTI Marquez STEV						
AUTHORIZED BY		JOB TYPE: 2-42 8 7/8 SURVEY						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	TIME
20920x	.5						8-12	3:36
						ARRIVED AT JOB		8:50
19860	.5					START OPERATION		1:20
						FINISH OPERATION		1:48
						RELEASED		2:18
						MILES FROM STATION TO WELL		100

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)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
Bc132	60/40 POZ	SN	290		7,830 00
cc 102	Cellulose	lb	73		154 76
CC109	Calcium chloride	lb	750		397 50
me101	Light veh miles	mi	100		265 00
me102	Heavy eq miles	mi	200		848 00
cc1	depth charge - 0-1000'	hr	1		636 00
Ce240	blend + mix	SN	290		215 18
Be143	Superior	ea	1		75 00
Be144	Driver	ea	3		105 00

SUB TOTAL **12,758 00**

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		6,846 34

SERVICE REPRESENTATIVE Mike Matta	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: X Robb W...
--	--

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer LD Drilling	Lease No.	Date 8-13-19
Lease POTTER	Well # 1-6	
Field Order # 18039	Station Pratt	Casing 8 5/8
Type Job 2-42-Su	Formation	Depth
		County NESS
		State KS
		Legal Description 6-185-24w

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 290 SAs 60/40 POZ	RATE	PRESS	ISIP	
Depth 345.6	Depth	From	To	Pre Pad	Max		5 Min.	
Volume 21.9	Volume	From	To	Pad	Min		10 Min.	
Max Press 300	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection 3V	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 325	Packer Depth	From	To	Flush 20.7	Gas Volume		Total Load	

Customer Representative Rich	Station Manager Westerman	Treater MATTW
Service Units 98258	84981	20920
Driver Names MATTW	MARQUEZ	STEVE
	70959	19860

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
8:50					ON location / safety meeting
12:10					RUN 8 5/8 CASING
12:55					CSNG ON BOTTOM
1:05					HOOK TO CSNG / BREAK CIRC W. RIG
1:10	100		3	4	PUMP 3 bbl WATER
1:12	100		62	4	MIX 290 SAs 60/40 POZ
1:35	150			4	START displacement
1:45	175		20.7		plug down / shut in well
					CEMENT TO SURFACE

JOB COMPLETE
 THANK YOU!
 MIKE MATTW
 EDMUNDO + STEVE



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job Log

Customer:	LD Drilling	Cement Pump No.:	38750-19842 <i>4hrs</i>	Operator TRK No.:	96815
Address:		Ticket #:	1718-19730 L	Bulk TRK No.:	84891-19862
City, State, Zip:		Job Type:	Z42 - Plug to Abandon		
Service District:		Well Type:	OIL		
Well Name and No.:	Potter 1-6	Well Location:	6,18,24	County:	Ness
				State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
60/40 POZ	230	4%GEL, 1/4#POLYFLAKE	84891-19862	Front	Back
				Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	14.8	1.21	5.18	278.3	Man Hours:	27
Tail:					# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure (PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
11:00							ON LOC, SAFTEY MTG, R.U.
11:39	6	10			190		H2O SPACER
11:56 AM	5.5	10.7			200		MIX 50 SX @ 1680'
11:59 AM	3.5	3			40		H2O SPACER
12:01 PM	6	18					MUD
12:41	5	10			120		H2O SPACER
12:44	5	17.2			120		MIX 80 SX @ 900'
12:49 PM	5	8			30		H2O DISPLACEMENT
13:19	5	10			50		H2O SPACER
13:22	5	10.7			50		MIX 50 SX @ 360'
13:24	5	2					DISPLACE
14:16	3	4.3					MIX 20 SX @ 60'
14:23	3	6.4					PLUG RAT HOLE
							WASHUP
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!

Size Hole	Depth			TYPE	
Size & Wt. Csg.	Depth		New / Used	Packer	Depth
lbg.	Depth			Retainer	Depth
Top Plugs	Type			Perfs	CIBP

Customer Signature: <i>[Signature]</i>	Basic Representative:	CHAD HINZ
	Basic Signature:	<i>[Signature]</i>
	Date of Service:	8/31/2019

LD DRILLING
POTTER 1-6

