

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 Recompletion Date _____ 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) (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	MEADOW 1-29
Doc ID	1490258

Tops

Name	Top	Datum
ANHYDRITE	2790	+469
BASE ANHYDRITE	2822	+437
STOTLER	3682	-423
HEEBNER	4088	-829
LANSING	4132	-873
BASE KANSAS CITY	4405	-1146
PAWNEE	4532	-1273
FORT SCOTT	4589	-1330
CHEROKEE	4621	-1362
MISSISSIPPI	4738	-1479



Company: L. D. Drilling, Inc
Lease: Meadow #1-29

SEC: 29 TWN: 8S RNG: 34W
 County: THOMAS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 3255 EGL
 Field Name: NA
 Pool: Infield
 Job Number: 418
 API #: 15-193-21060

Operation:
 Uploading recovery & pressures

DATE
 November
17
 2019

DST #1 **Formation: LKC "J"** **Test Interval: 4288 - 4333'** **Total Depth: 4333'**
 Time On: 13:06 11/17 Time Off: 20:47 11/17
 Time On Bottom: 16:14 11/17 Time Off Bottom: 18:14 11/17

Electronic Volume Estimate:
 8'

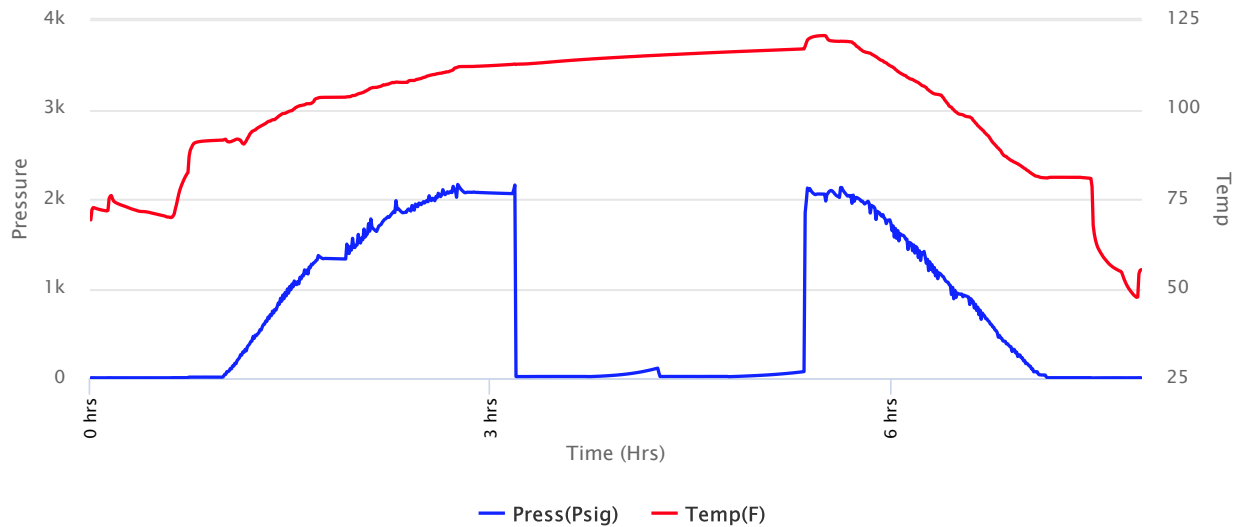
1st Open
 Minutes: 30
 Current Reading: .6" at 30 min
 Max Reading: .6"

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

2nd Open
 Minutes: 30
 Current Reading: .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: Meadow #1-29

SEC: 29 TWN: 8S RNG: 34W
 County: THOMAS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 3255 EGL
 Field Name: NA
 Pool: Infield
 Job Number: 418
 API #: 15-193-21060

Operation:
 Uploading recovery & pressures

DATE
 November
17
 2019

DST #1 **Formation: LKC "J"** **Test Interval: 4288 - 4333'** **Total Depth: 4333'**
 Time On: 13:06 11/17 Time Off: 20:47 11/17
 Time On Bottom: 16:14 11/17 Time Off Bottom: 18:14 11/17

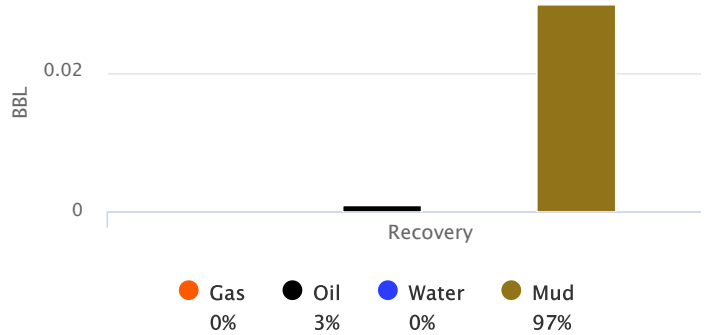
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
3	0.03078	SLOCM	0	3	0	97

Total Recovered: 3 ft
 Total Barrels Recovered: 0.03078

Reversed Out
NO

Initial Hydrostatic Pressure	2061	PSI
Initial Flow	19 to 20	PSI
Initial Closed in Pressure	110	PSI
Final Flow Pressure	20 to 20	PSI
Final Closed in Pressure	70	PSI
Final Hydrostatic Pressure	2054	PSI
Temperature	117	°F
Pressure Change Initial Close / Final Close	36.7	%

Recovery at a glance



GIP cubic foot volume: 0



Company: L. D. Drilling, Inc
Lease: Meadow #1-29

SEC: 29 TWN: 8S RNG: 34W
 County: THOMAS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 3255 EGL
 Field Name: NA
 Pool: Infield
 Job Number: 418
 API #: 15-193-21060

Operation:
 Uploading recovery &
 pressures

DATE
 November
17
 2019

DST #1 Formation: LKC "J" Test Interval: 4288 - Total Depth: 4333'
4333'
 Time On: 13:06 11/17 Time Off: 20:47 11/17
 Time On Bottom: 16:14 11/17 Time Off Bottom: 18:14 11/17

BUCKET MEASUREMENT:

1st Open: Weak surface blow built to 1/2" over 30 min.
 1st Close: No Return
 2nd Open: Weak Surface blow started at 7 min. 45 sec. Did not build or die over 30 min.
 2nd Close: No Return

REMARKS:

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



Company: L. D. Drilling, Inc
Lease: Meadow #1-29

SEC: 29 TWN: 8S RNG: 34W
 County: THOMAS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 3255 EGL

Operation:Uploading recovery &
pressuresField Name: NA
Pool: Infield
Job Number: 418
API #: 15-193-21060**DATE**November
17
2019**DST #1 Formation: LKC "J" Test Interval: 4288 - 4333' Total Depth: 4333'**

Time On: 13:06 11/17

Time Off: 20:47 11/17

Time On Bottom: 16:14 11/17

Time Off Bottom: 18:14 11/17

Down Hole Makeup**Heads Up:** 30.18 FT**Packer 1:** 4283.4 FT**Drill Pipe:** 4286.01 FT
*ID-3 1/4***Packer 2:** 4288.4 FT**Weight Pipe:** 0 FT
*ID-2 7/8***Top Recorder:** 4272.82 FT**Collars:** 0 FT
*ID-2 1/4***Bottom Recorder:** 4291 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:** 44.6**Anchor Makeup****Packer Sub:** 1 FT**Perforations: (top):** 8 FT
*4 1/2-FH***Change Over:** .5 FT**Drill Pipe: (in anchor):** 31.6 FT
*ID-3 1/4***Change Over:** .5 FT**Perforations: (below):** 3 FT
4 1/2-FH**Company: L. D. Drilling, Inc**
Lease: Meadow #1-29SEC: 29 TWN: 8S RNG: 34W
County: THOMAS
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 3255 EGL
Field Name: NA
Pool: Infield**Operation:**

Uploading recovery & pressures

Job Number: 418
API #: 15-193-21060

DATE

November
17
2019

DST #1 **Formation: LKC "J"** **Test Interval: 4288 - 4333'** **Total Depth: 4333'**

Time On: 13:06 11/17

Time Off: 20:47 11/17

Time On Bottom: 16:14 11/17

Time Off Bottom: 18:14 11/17

Mud Properties

Mud Type: Chem

Weight: 9.5

Viscosity: 57

Filtrate: 10.4

Chlorides: 4000 ppm



Operation:

Uploading recovery & pressures

Company: L. D. Drilling, Inc
Lease: Meadow #1-29

SEC: 29 TWN: 8S RNG: 34W
County: THOMAS
State: Kansas
Drilling Contractor: L. D. Drilling, Inc - Rig 1
Elevation: 3255 EGL
Field Name: NA
Pool: Infield
Job Number: 418
API #: 15-193-21060

DATE

November

17

2019

DST #1 Formation: LKC "J" Test Interval: 4288 - 4333' Total Depth: 4333'

Time On: 13:06 11/17

Time Off: 20:47 11/17

Time On Bottom: 16:14 11/17

Time Off Bottom: 18:14 11/17

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: L. D. Drilling, Inc
Lease: Meadow #1-29

SEC: 29 TWN: 8S RNG: 34W
 County: THOMAS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 3255 EGL
 Field Name: NA
 Pool: Infield
 Job Number: 418
 API #: 15-193-21060

Operation:
 Uploading recovery & pressures

DATE
 November
18
 2019

DST #2 **Formation: LKC "K,L"** **Test Interval: 4331 - 4390'** **Total Depth: 4390'**
 Time On: 07:38 11/18 Time Off: 13:58 11/18
 Time On Bottom: 10:00 11/18 Time Off Bottom: 12:00 11/18

Electronic Volume Estimate:
 19'

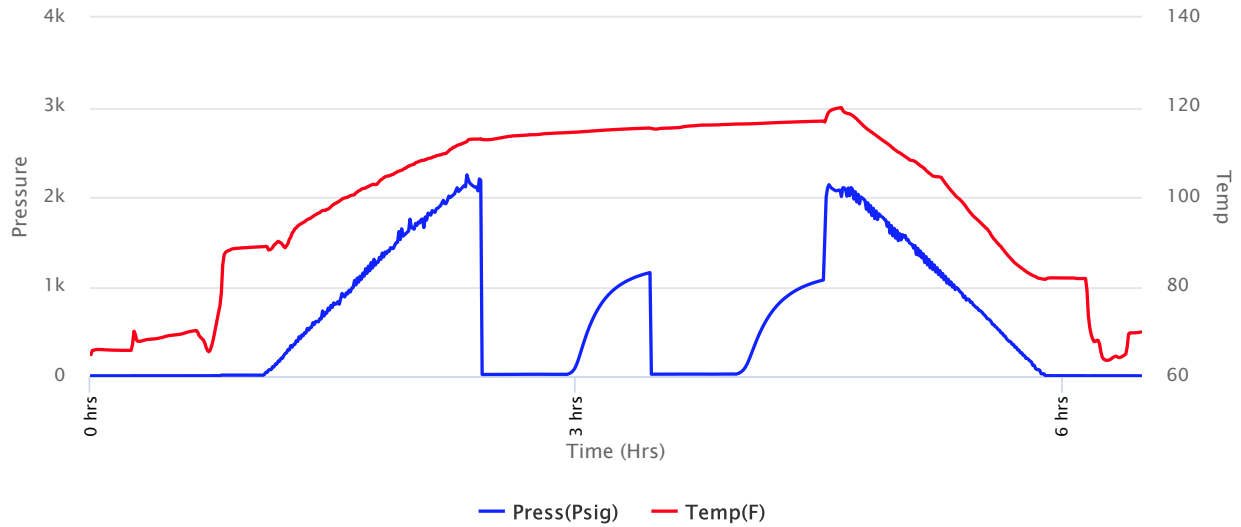
1st Open
 Minutes: 30
 Current Reading:
 1.4" at 30 min
 Max Reading: 1.4"

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

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

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

Inside Recorder





Company: L. D. Drilling, Inc
Lease: Meadow #1-29

SEC: 29 TWN: 8S RNG: 34W
 County: THOMAS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 3255 EGL
 Field Name: NA
 Pool: Infield
 Job Number: 418
 API #: 15-193-21060

Operation:
 Uploading recovery & pressures

DATE
 November
18
 2019

DST #2 **Formation: LKC "K,L"** **Test Interval: 4331 - 4390'** **Total Depth: 4390'**
 Time On: 07:38 11/18 Time Off: 13:58 11/18
 Time On Bottom: 10:00 11/18 Time Off Bottom: 12:00 11/18

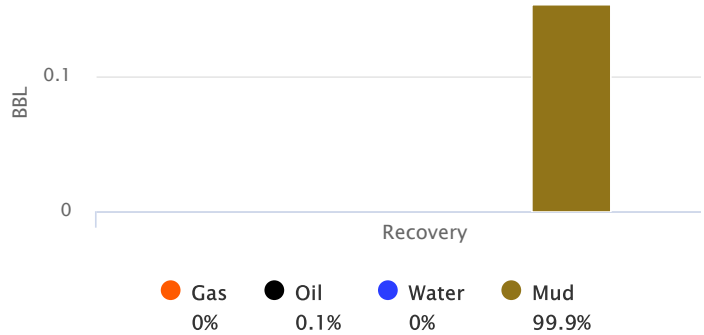
<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
15	0.1539	M (trace O)	0	.1	0	99.9

Total Recovered: 15 ft
 Total Barrels Recovered: 0.1539

Reversed Out
NO

Initial Hydrostatic Pressure	2127	PSI
Initial Flow	20 to 22	PSI
Initial Closed in Pressure	1148	PSI
Final Flow Pressure	23 to 25	PSI
Final Closed in Pressure	1066	PSI
Final Hydrostatic Pressure	2071	PSI
Temperature	117	°F
Pressure Change Initial Close / Final Close	7.2	%

Recovery at a glance



GIP cubic foot volume: 0



Company: L. D. Drilling, Inc
Lease: Meadow #1-29

SEC: 29 TWN: 8S RNG: 34W
 County: THOMAS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 3255 EGL
 Field Name: NA
 Pool: Infield
 Job Number: 418
 API #: 15-193-21060

Operation:
 Uploading recovery &
 pressures

DATE
 November
18
 2019

DST #2	Formation: LKC "K,L"	Test Interval: 4331 - 4390'	Total Depth: 4390'
	Time On: 07:38 11/18	Time Off: 13:58 11/18	
	Time On Bottom: 10:00 11/18	Time Off Bottom: 12:00 11/18	

BUCKET MEASUREMENT:

1st Open: 1/8" Blow built to 1 1/2" over 30 min.
 1st Close: No Return
 2nd Open: Weak Surface blow built to 1/4" over 30 min.
 2nd Close: No Return

REMARKS:

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



Company: L. D. Drilling, Inc
Lease: Meadow #1-29

SEC: 29 TWN: 8S RNG: 34W
 County: THOMAS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 3255 EGL

Operation:Uploading recovery &
pressuresField Name: NA
Pool: Infield
Job Number: 418
API #: 15-193-21060**DATE**November
18
2019

DST #2	Formation: LKC "K,L"	Test Interval: 4331 - 4390'	Total Depth: 4390'
	Time On: 07:38 11/18	Time Off: 13:58 11/18	
	Time On Bottom: 10:00 11/18	Time Off Bottom: 12:00 11/18	

Down Hole Makeup

Heads Up: 19.6 FT	Packer 1: 4325.54 FT
Drill Pipe: 4317.57 FT <i>ID-3 1/4</i>	Packer 2: 4330.54 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4314.96 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4333 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: 59.46	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 23 FT <i>4 1/2-FH</i>	
Change Over: .5 FT	
Drill Pipe: (in anchor): 31.46 FT <i>ID-3 1/4</i>	
Change Over: .5 FT	
Perforations: (below): 3 FT <i>4 1/2-FH</i>	


Company: L. D. Drilling, Inc
Lease: Meadow #1-29

 SEC: 29 TWN: 8S RNG: 34W
 County: THOMAS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 3255 EGL
 Field Name: NA
 Pool: Infield

Operation:

DATE

November

18

2019

DST #2

Formation: LKC
"K,L"

Test Interval: 4331 -
4390'

Total Depth: 4390'

Time On: 07:38 11/18

Time Off: 13:58 11/18

Time On Bottom: 10:00 11/18

Time Off Bottom: 12:00 11/18

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: L. D. Drilling, Inc
Lease: Meadow #1-29

SEC: 29 TWN: 8S RNG: 34W
 County: THOMAS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 3255 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 418
 API #: 15-193-21060

Operation:
 Uploading recovery & pressures

DATE
 November
19
 2019

DST #3 **Formation: Metric St. / Johnson** **Test Interval: 4549 - 4675'** **Total Depth: 4675'**
 Time On: 23:58 11/19 Time Off: 07:38 11/20
 Time On Bottom: 03:27 11/20 Time Off Bottom: 05:27 11/20

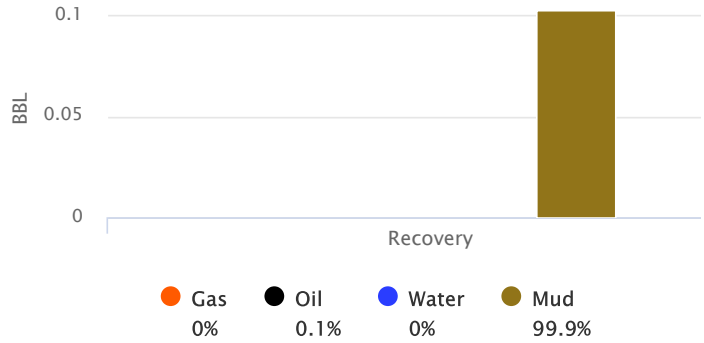
<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
10	0.1026	M (trace O)	0	.1	0	99.9

Total Recovered: 10 ft
 Total Barrels Recovered: 0.1026

Reversed Out
NO

Initial Hydrostatic Pressure	2219	PSI
Initial Flow	22 to 24	PSI
Initial Closed in Pressure	1057	PSI
Final Flow Pressure	26 to 27	PSI
Final Closed in Pressure	840	PSI
Final Hydrostatic Pressure	2206	PSI
Temperature	123	°F
Pressure Change Initial Close / Final Close	20.5	%

Recovery at a glance



GIP cubic foot volume: 0



Company: L. D. Drilling, Inc
Lease: Meadow #1-29

SEC: 29 TWN: 8S RNG: 34W
 County: THOMAS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 3255 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 418
 API #: 15-193-21060

Operation:
 Uploading recovery &
 pressures

DATE
 November
19
 2019

DST #3	Formation: Metric	Test Interval: 4549 -	Total Depth: 4675'
	St. / Johnson	4675'	
	Time On: 23:58 11/19	Time Off: 07:38 11/20	
	Time On Bottom: 03:27 11/20	Time Off Bottom: 05:27 11/20	

BUCKET MEASUREMENT:

1st Open: 1/8" Blow built to 1 1/2" over 30 min.
 1st Close: No Return
 2nd Open: Weak Surface blow started at 7 min. 32sec. Built to 1/8" over 30 min..
 2nd Close: No Return

REMARKS:

Tool Sample: 0% Gas .1% Oil 0% Water 99.9% Mud



Company: L. D. Drilling, Inc
Lease: Meadow #1-29

SEC: 29 TWN: 8S RNG: 34W
 County: THOMAS
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 3255 EGL

Operation:Uploading recovery &
pressuresField Name: Wildcat
Pool: Infield
Job Number: 418
API #: 15-193-21060**DATE**November
19
2019

DST #3	Formation: Metric St. / Johnson	Test Interval: 4549 - 4675'	Total Depth: 4675'
	Time On: 23:58 11/19	Time Off: 07:38 11/20	
	Time On Bottom: 03:27 11/20	Time Off Bottom: 05:27 11/20	

Down Hole Makeup

Heads Up: 22.35 FT	Packer 1: 4543.51 FT
Drill Pipe: 4538.29 FT <i>ID-3 1/4</i>	Packer 2: 4548.51 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4532.93 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4551 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH Jars Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 126.49	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 27 FT <i>4 1/2-FH</i>	
Change Over: .5 FT	
Drill Pipe: (in anchor): 94.49 FT <i>ID-3 1/4</i>	
Change Over: .5 FT	
Perforations: (below): 3 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Meadow #1-29

SEC: 29 TWN: 8S RNG: 34W
County: THOMAS
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 3255 EGL
Field Name: Wildcat
Pool: Infield

Operation:

Uploading recovery &
pressures

Job Number: 418
API #: 15-193-21060

DATE

November
19
2019

DST #3 **Formation: Metric St. / Johnson** **Test Interval: 4549 - 4675'** **Total Depth: 4675'**
Time On: 23:58 11/19 Time Off: 07:38 11/20
Time On Bottom: 03:27 11/20 Time Off Bottom: 05:27 11/20

Mud Properties

Mud Type: Chem **Weight:** 9.6 **Viscosity:** 57 **Filtrate:** 10.4 **Chlorides:** 5500 ppm



Operation:

Uploading recovery &
pressures

Company: L. D. Drilling, Inc
Lease: Meadow #1-29

SEC: 29 TWN: 8S RNG: 34W
County: THOMAS
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 3255 EGL
Field Name: Wildcat
Pool: Infield
Job Number: 418
API #: 15-193-21060

DATE

November

19

2019

DST #3

**Formation: Metric
St. / Johnson**

**Test Interval: 4549 -
4675'**

Total Depth: 4675'

Time On: 23:58 11/19

Time Off: 07:38 11/20

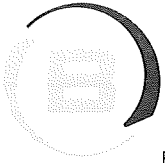
Time On Bottom: 03:27 11/20

Time Off Bottom: 05:27 11/20

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

0641195123
FIELD SERVICE TICKET

1718 18494 A

DATE _____ TICKET NO. 18494

DATE OF JOB <u>11-10-19</u>	DISTRICT <u>Pratt, KS. 1718</u>	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 <u>LD Drilling</u>	LEASE <u>Meadow</u>	WELL NO. <u>1-29</u>					
ADDRESS	COUNTY <u>Thomas</u>	STATE <u>Kansas</u>					
CITY	STATE	SERVICE CREW <u>Carl B Ron G Clarence G</u>					
AUTHORIZED BY	JOB TYPE: <u>Surface</u>	<u>2-42</u>					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <u>11-9-19</u>	DATE <u>11-9-19</u> AM <u>7:00</u>
<u>27463</u>	<u>75</u>					ARRIVED AT JOB <u>11-9-19</u>	AM <u>11:30</u>
<u>19959-19862</u>	<u>50</u>					START OPERATION <u>11-10-19</u>	AM <u>5:15</u>
						FINISH OPERATION	AM <u>6:00</u>
						RELEASED	AM <u>6:45</u>
						MILES FROM STATION TO WELL	<u>200</u>

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 [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
BC 132	60/40 Poz	SX	340		9180 -
CC 102	celloflake	lb	85		340 -
CC 109	calcium chloride	lb	879		879 -
X 002	sugar	lb	200		800 -
ME 101	light vehicle mileage	Mi	100		500 -
ME 102	heavy equipment mileage	Mi	200		1600 -
CC 1	Depth charge 0-1000'	Hr	1		1200 -
CE 240	Blending + mixing service charge	SX	340		476 -
BE 143	service supervisor charge	ea	1		75 -
BE 144	Drivers charge	ea	3		105 -

CHEMICAL / ACID DATA:			

SUB TOTAL	15,155	-
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL	8116	75

SERVICE REPRESENTATIVE Carl Balderny
FIELD SERVICE ORDER NO. _____

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: X [Signature]
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer <i>LD Drilling</i>	Lease No.	Date <i>11-10-2019</i>
Lease <i>Meadow</i>	Well # <i>1-29</i>	
Field Order # <i>15494</i>	Station <i>Pratt KS. #1718</i>	Casing <i>8 5/8</i>
Type Job <i>8 3/8 surface</i>	Depth <i>338'</i>	County <i>Thomas</i>
	Formation	State <i>KS.</i>
		Legal Description <i>29-83-34W</i>

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <i>8 5/8</i>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>338'</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>20.5</i>	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>3-4</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth, <i>Cem 318</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager <i>Justin Westerman</i>	Treater <i>Carl Baldwin</i>
Service Units <i>27463</i>	<i>19959</i>	<i>19862</i>
Driver Names <i>Ron G</i>	<i>Clarence</i>	<i>Goxx</i>

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>11:30 AM</i>					<i>on location</i>
					<i>Rig up</i>
					<i>Run 338' 8 5/8 casing</i>
					<i>Break circulation w/ Rig</i>
<i>5:00 AM</i>					<i>Rig up to cement</i>
	<i>100</i>		<i>73.25</i>	<i>3.5</i>	<i>start 40:40:20z + Additives Cement</i>
					<i>Cement in</i>
	<i>200</i>		<i>20.25</i>	<i>3.5</i>	<i>Displace with 20 1/4 Bbbs water</i>
	<i>100</i>				<i>leave 20' cement in casing</i>
					<i>shot in</i>
<i>6:00 AM</i>					<i>Cement did circulate</i>
					<i>Thank you</i>



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 Phone 620-672-1201

FIELD SERVICE TICKET
 1718 18429 A

TMH-50

DATE _____ TICKET NO. _____

DATE OF JOB	11-21-2019 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	LD DRILLING	LEASE	MEADOW										WELL NO.	1-29
ADDRESS		COUNTY	THOMAS									STATE	Ks	
CITY		STATE												
AUTHORIZED BY		SERVICE CREW	LESLEY, HILLEY, WHITFIELD											
		JOB TYPE:	242 P.T.A.											

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
27463	5						11-21-19	AM	8:00
								PM	1:00
19960/21010	5							AM	2:00
								PM	7:00
								AM	7:30
								PM	

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

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SIGNED: *[Signature]*
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
BC 132	100/40 POZ	SK	240		6,480.00
CC 102	CELL FLAKE	LB	61		249.00
CC 200	CEMENT GEL	LB	414		207.00
ME 101	LIGHT VEHICLE MILEAGE	MI	100		500.00
ME 102	HEAVY EQUIPMENT MILEAGE	ME	200		1,600.00
CC 3	DEPTH CHARGE 2001-3000'	HR	1		1,800.00
CE 240	BLEND & MIX CHARGE	SK	240		336.00
CF 153	WOODEN CEMENT PLUG 8 7/8"	EA	1		160.00
BE 143	SERVICE SUPERVISOR	EA	1		75.00
BE 144	DRIVER CHARGE	EA	3		105.00

SUB TOTAL *11,507.00*

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

TOTAL *6,296.58*

SERVICE REPRESENTATIVE	<i>[Signature: Lesley]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:	<i>[Signature]</i>
FIELD SERVICE ORDER NO.		(WELL OWNER OPERATOR CONTRACTOR OR AGENT)	

Customer ID DRILLING	Lease No. 11-294	Date 11-21-2019	
Lease MEADOW	Well.# 1-294		
Field Order # 18929	Station PRATT, KS.	Casing	Depth
Type Job P.T.A.	Formation	County THOMAS	State KS
		Legal Description 29-85-34W	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
4 1/2" O.D.		240 SKS		10/10 POZ				
Depth	Depth	From	To	Pre Pad	Max			5 Min.
				@ 1.43 CVT ³				
Volume	Volume	From	To	Pad	Min			10 Min.
Max Press	Max Press	From	To	Frac	Avg			15 Min.
1000								
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative RICK	Station Manager J. WESTERMAN	Treater K. LESLEY
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Service Units	916817	27463	19760	21010					
Driver Names	LESLEY	BRIDEN	WHITFIELD						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:00 PM					ON LOCATION! - SAFETY MEETING
2:00 PM					*1 ST PLUG @ 2800'
2:08 PM	350		10	4	H ₂ O AHEAD
2:12 PM	350		12.7	4	MIX 50 SKS @ 13.8 PPG
2:14 PM	350		10	4	H ₂ O BEHIND
2:20 PM	350		26	4	MUD DISPLACEMENT
2:45 PM					*2 ND PLUG @ 1950'
2:47 PM	100		5	5	H ₂ O AHEAD
2:48 PM	100		25.5	5	MIX 100 SKS @ 13.8 PPG
2:52 PM	100		5	5	H ₂ O BEHIND
2:54 PM	100		16	5	MUD DISPLACEMENT
4:30 PM					*3 RD PLUG @ 290'
4:35 PM	50		5	4	H ₂ O AHEAD
4:36 PM	50		12.7	4	MIX 50 SKS @ 13.8 PPG
4:37 PM	50		.8	4	DISPLACEMENT
6:10 PM					*4 TH PLUG @ 40'
6:15 PM	0		2.5		MIX 10 SKS - CNT TO SURFACE
6:30 PM	0		7		*PLUG R.H. - 30 SKS
					JOB COMPLETE,
					THANKS -
					KEVEN LESLEY

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

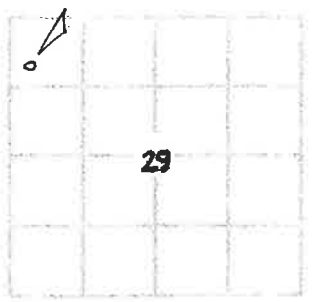
DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.
 LEASE * 1-29 MEADOW
 FIELD WILDCAT
 LOCATION 990' FNL ± 330' FWL (SW/NW/NE)
 SEC 29 T15P 8s RGE 34W
 COUNTY THOMAS STATE KANSAS
 CONTRACTOR L. D. DRILLING, INC.
 SPUD 11-9-19 COMP 11-21-19
 RTD 4840 LTD 4839
 MUD WT 3500 TYPE MUD CHEMICAL

ELEVATIONS
 KB 3259
 DF _____
 GL 3254
 Measurements Are All
 From 3259 KB
 CASING
 SIZE 8 5/8" @ 338'
 PRODUCTION _____
 ELECTRICAL SURVEY
DUAL IND, DENS-N. MICRO

SAMPLES SAVED FROM 3660 TO 4840
 DRILLING TIME KEPT FROM 3600 TO 4840
 SAMPLES EXAMINED FROM 3660 TO 4840
 GEOLOGICAL SUPERVISION FROM 3800 TO 4840
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2790-469	2792-467
B/ANH.	2822-437	2823-436
STOTLER	3682-423	3678-419
HEEBNER	4088-829	4084-825
LANSING	4132-873	4128-869
B/KC	4405-1146	4400-1141
PAWNEE	4532-1273	4526-1267
FORT SCOTT	4589-1330	4583-1324
CHEROKEE	4621-1362	4614-1355
MISSISSIPPI	4738-1479	4735-1476

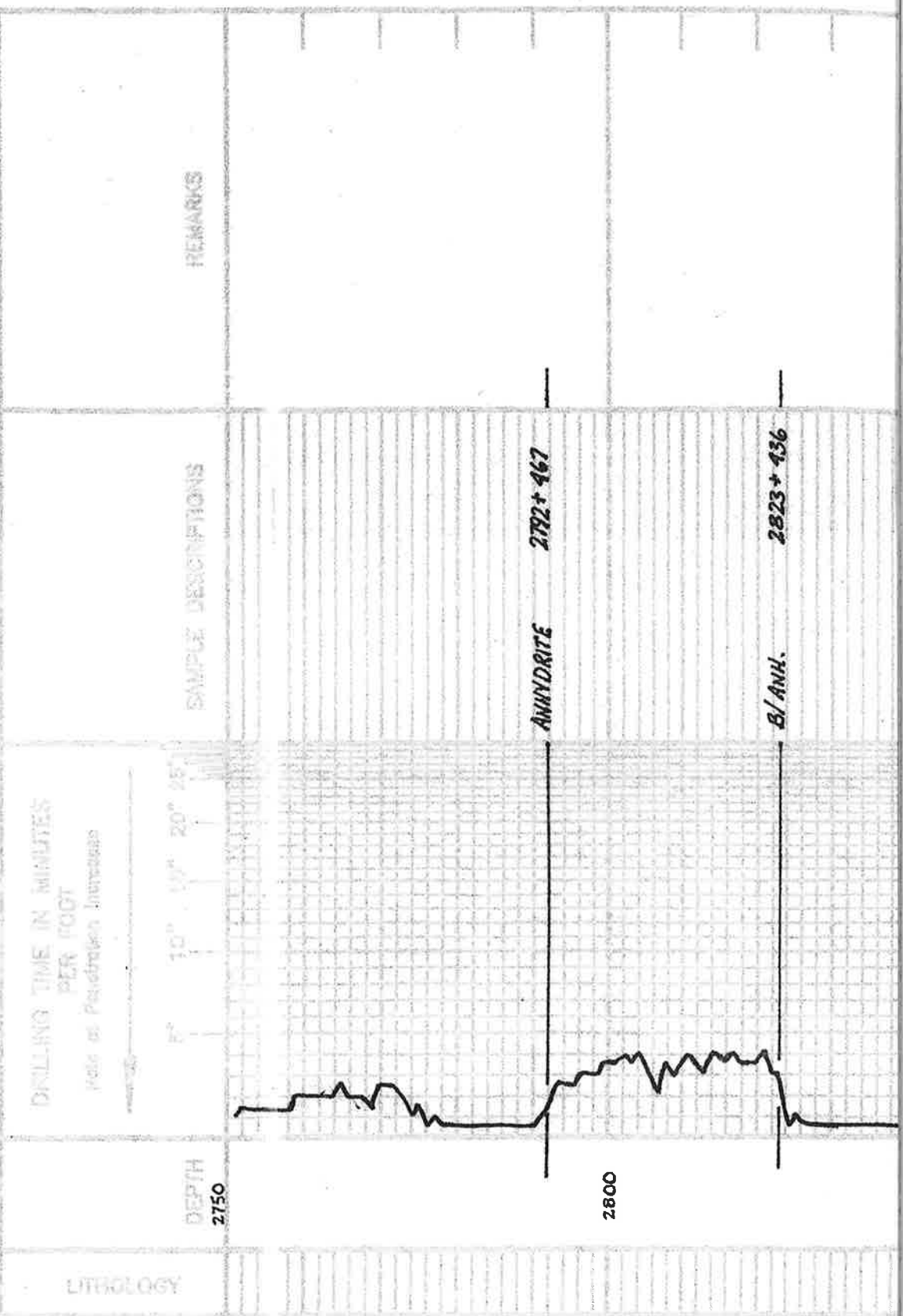


API: 15-193-21060

REMARKS
 11-9-19 SPUD
 11-10 @ 341'
 11-11 @ 1350'
 11-12 @ 2018'
 11-13 @ 2730'
 11-14 @ 3248'
 11-15 @ 3702'
 11-16 @ 4128'
 11-17 @ 4310'
 11-18 @ 4390'
 11-19 @ 4625'
 11-20 @ 4675'
 11-21 @ 4840'

LEGEND

- Dolomite
- Grit
- Cellulose
- Unstratified
- Ore or
- Shale
- Sandstone
- All
- Anhydrite



LITHOLOGY

DEPTH
2750

ANHYDRITE 2792+467

B/ANH. 2823+436

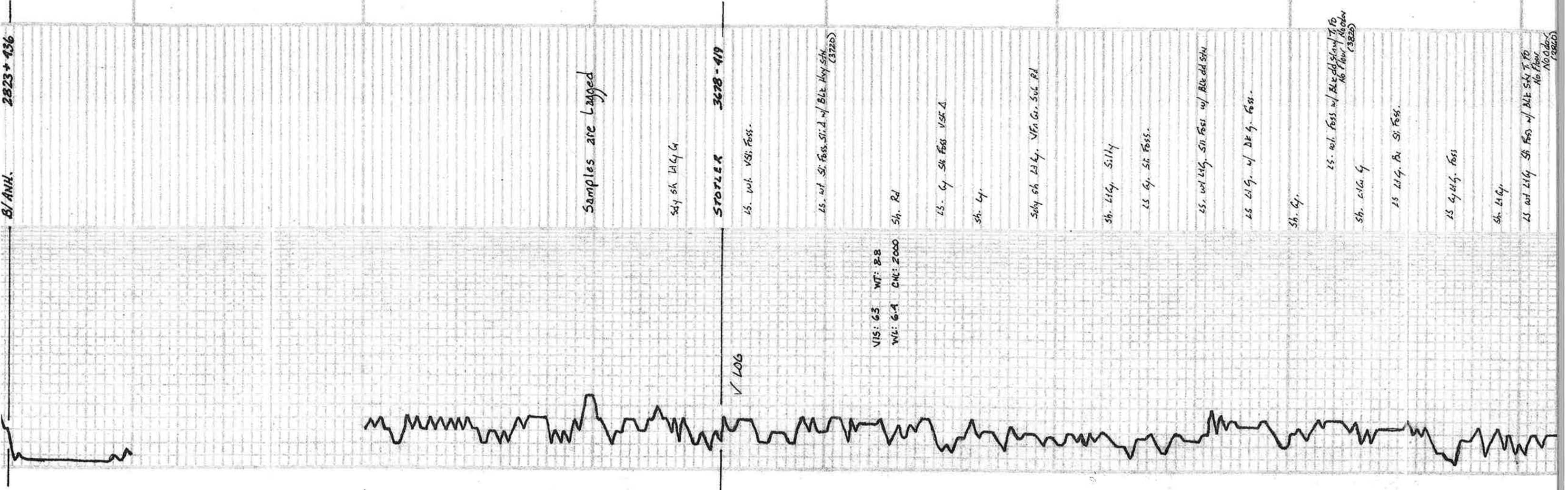
2800

2850

3600

3700

3800



Samples are lagged

sh. clay

STOPLER 3678 - 419

ls. wt. sil. foss.

ls. wt. sil. foss. sil. d. w/ blk. clay silt (3722)

VIS: 63 WT: 2.8
WL: 6.4 CMC: 2000

sh. rd

ls. clay sil. foss. v. sil. d.

sh. clay

sh. clay sil. clay. v. fine gr. sil. d.

sh. clay silty

ls. clay sil. foss.

ls. wt. sil. foss. sil. foss. w/ blk. sil. d. silt

ls. clay w/ blk. clay. foss.

sh. clay

ls. wt. foss. w/ blk. sil. d. silt
No flow (3825)

sh. clay

ls. clay. fine sil. foss.

ls. clay. foss.

sh. clay

ls. wt. clay sil. foss. w/ blk. sil. d. silt
No flow (3825)

Sh. Ltg.
 Ls. w/ Ltg. Sh. Foss w/ Blk Sh. F. Rd
 No Foss
 No. 0.0005
 (3800)

Ls. Ltg. vsi. chly.

Δ wt

Sh. Blue & Silty

Ls. w/ sh. Foss. Foss chly.

Sh. Ltg. Blue Sdy

Ls. Th w/ Foss.

Ls. w/ sh. Foss Sil chly.

Ls. w/ Foss vsi. Δ

Sil. Sdy sh. Ltg. Foss & Sil. Rd

Ls. w/ Ltg. Sil Foss chly.

Ls. Th Foss. Colentic

Ls. w/ Ltg. Foss. Colentic

Sh. Blk.

Sh. Ltg.

Ls. w/ Ltg. Foss.

Sh. Ltg.

Ls. G. Rd.

Ls. Th w/ Sil. Foss. Colentic.

Ls. Th w/ Foss. Sil. Sil. Rulentic

Ls. Bl. Sil. Foss.

HEBNER 4081-825

Sh. Blk Camb. (4100)

Sh. Blue Silty sdy. Sh. Rd

Ls. w/ sh. Foss sil. Δ

Ls. w/ Sil. Foss w/ Blk dd sil

Sh. Rd

LANSING 4128-869

Ls. Th w/ ool sil. Δ

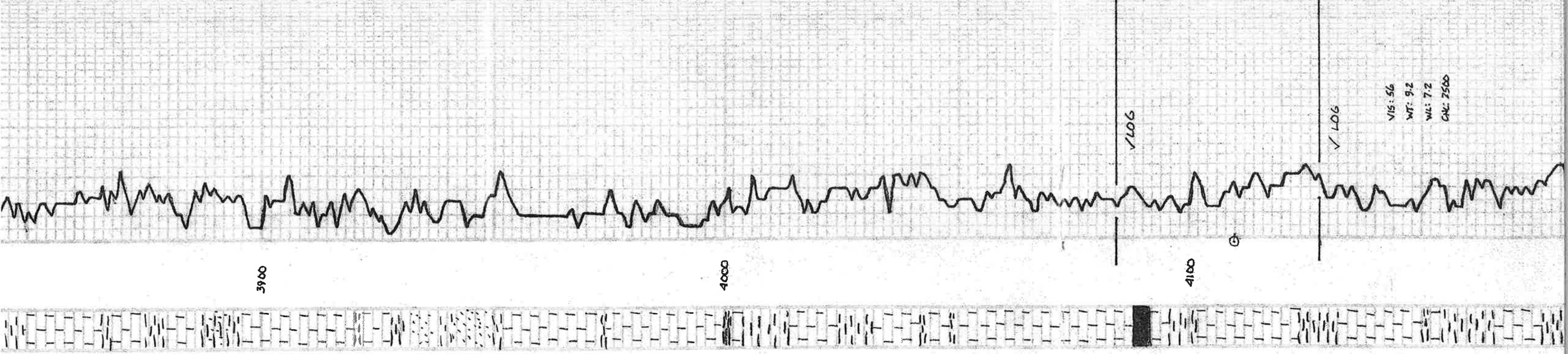
Ls. w/ ool. Foss sil. Δ

Sh. Dfs.

Sh. Rd

Ls. w/ Ltg. Sil. Foss w/ Blk. Silty Sh. Rd. (4180)

Sh. Rd



V15: 5.6
 WT: 9.2
 WL: 7.2
 CWC: 7500

LS. wt Ltg. Sh. Foss w/ R. Bl. R. dd Sil. (4180)

Sh. Rd

LS wt Foss.ool. Sil chly

LS wt Vchly

LS Tr wt Sh Foss w/ R. Bl. R. dd Sil (4210-40)

Sh. L Blk

LS. wt Ltg. Sh Foss w/ Tr. Purple

LS. wt Vchly

LS Tr wt Sil. Calotte Sil. A

MUNCIE CREEK 4258-999

Sh. Rd. Conc. LS. Bl. Vch Foss. Vch. A

Sh. L Lg

A wt Ltg. LS. Ltg. Sil. Foss. Sil. A

LS Tr Ltg. Dm

Sh. Blk LS. Bl. Vch A

Sh. L Lg

LS. wt Ltg. Sil. Foss. Vch. Blk. R. Bl. R. dd Sil. (4270-40)
VIS: 57 WT: 95
WL: 10.4 CHL: 4000

Sh. L Lg. Blk

LS. wt Sil. Foss. R. Bl. R. dd Sil. (4388-40)
Bl. Sil. old Sil. Foss. No Flow. F. Odor (4388-40)

STARK 4335-1076

Sh. Rd. E

Sh. L Lg

LS. Tr wt Sil. Foss. Vch. Blk. R. Bl. R. dd Sil. (4357-40)
Bl. Sil. Sil. Sp. Sil. SS. Foss. Dull. Floor

LS. Ltg. Sh. Foss. chly

Sh. Blk

Sh. L Lg

LS. wt.ool. Foss. Sil. A. Sil. chly

LS. Ltg. Sil. A. Calotte

B/KC 4400-1141

LS. Ltg. Dm

Sh. Rd. Blue. Purple

LS. wt Ltg. w/ Rd. Purple sh. Tr. d.

MARMATON 4423-1164

LS. wt Sil. Foss. Calotte
A. Chly

Sh. Rd. Silly

LS. Tr Ltg. Vch. F.

Sh. Rd. Purple

LS. wt Tr. Foss. Calotte. Sil. Concil. Clear.

Sh. L Lg

LS. wt Ltg. Sil.

DST (1) 4288-4333
1st OPEN: Blow built to 1/2"
2nd OPEN: Surface Blow
30-30-30-30-30
Rec. 3' sacm (37' oil)

Tool Sample: 17' oil
99' 1/4"
FP: 19:20 40-20 W
SIP: 10-70 W
Temp: 117° F

Temp: 117° F

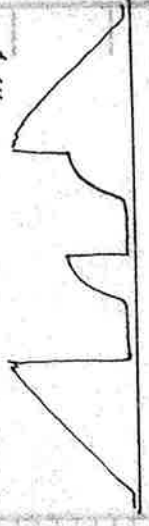


DST (2) 4330-4390

1st OPEN: Built to 1 1/2"
2nd OPEN: " " 1/4"
30-30-30-30-30
Rec. 15' Mud w/ Trace Oil

Tool Sample: 12' oil
99' Mud
FP: 20-22 23-25 W
SIP: 1198-1066 W
Temp: 117° F

Temp: 117° F



4200

4300

4400

4500

VLOG

DST (1)

6th Trip
@ 4291

DST (2)

VLOG

VIS: 56 WT: 93
WL: 8.8 CHL: 5000

VLOG

VLOG

ls. clay. silty

ls. and silty ss

ls. gy. silty

sh. blk. dk. g.

26-1267

PAWNEE

ls. and silty ss
sh. blk. dk. g.

ls. tan. silty ss

sh. blk. dk. g.

VIS: 57 WT: 96
WL: 10.4 CMC: 5800

sh. blk. dk. g.

ls. dk. bl. v.

ls. dk. bl. v. silty

sh. blk. dk. g.

3-1324

sh. blk. dk. g.

ls. gy. silty ss

ls. tan. silty ss

4619-1335

CHEROKEE

sh. blk. dk. g.

ls. tan. silty ss

ls. dk. bl. v.

sh. blk. dk. g.

ls. dk. bl. v. silty

sh. blk. dk. g.

4663-1404

JONNSON

ls. dk. bl. v. silty
sh. blk. dk. g.

ls. dk. bl. v. silty

sh. dk. tan. yellow

sd. clay. tan. blk. dk. g. sub. rd.

sd. clay. tan. blk. dk. g. sub. rd.

sh. dk. tan. yellow

sd. clay. tan. blk. dk. g. sub. rd.

sh. dk. tan. yellow

4735-1476

MISSISSIPPI

ls. dk. tan. yellow

ls. and. tan. silty

sd. clay. tan. blk. dk. g. sub. rd.

sh. dk. tan. yellow

ls. dk. tan. yellow

sd. clay. tan. blk. dk. g. sub. rd.

sh. dk. tan. yellow

sd. clay. tan. blk. dk. g. sub. rd.

ls. dk. tan. yellow

4500

4600

4700

4800

VLOG

DST (3)

VLOG

VLOG

VIS: 56
WT: 94
WL: 88
CMC: 4500

VLOG

DST (3) 1518-1675

1st OPEN: Blow count to 1' 1/2"

2nd OPEN: " " " 1/8"

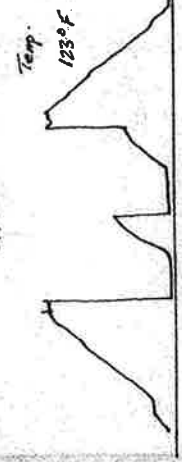
30-30-30-30

Rec. 10' Mud w/ Tr. oil

FP: 22-24 26-27*

STP: 1057-840*

Tool Sample
1.011
39.9 Mud



15. 1st. od. soy. Si. Chh.

Sd. Chhng. Mid Co. SW Rd

Δ Oryz

15. 1st. Si. A

Dod. 7th. V. Folia T. Clave. SI. 514

Sh. 49. 12

Dod. 7th. V. Folia Suci. Vaggy'

2m 49. V. Folia w. H. F. J. ad.

15. 1st. Si. A

Dod. 4. V. Folia Suci.

Δ 49.

Dod. 4. Folia.

RTD 4840-1581

4800

