

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	TRIGLIDE 1-13
Doc ID	1511989

Tops

Name	Top	Datum
ANHYDRITE	2197	+517
BASE ANHYDRITE	2232	+482
STOTLER	3465	-751
HEEBNER	3828	-1114
LANSING	3868	-1154
STARK	4096	-1382
MARMATON	4189	-1475
FORT SOTT	4357	-1643
CHEROKEE	4385	-1671
MISSISSIPPI V	4449	-1735



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EST
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Uploading recovery & pressures

DATE
 March
15
 2020

DST #1 **Formation: L/KC "H-I"** **Test Interval: 4003 - 4063'** **Total Depth: 4063'**
 Time On: 15:35 03/15 Time Off: 21:50 03/15
 Time On Bottom: 18:02 03/15 Time Off Bottom: 20:02 03/15

Electronic Volume Estimate:
 15'

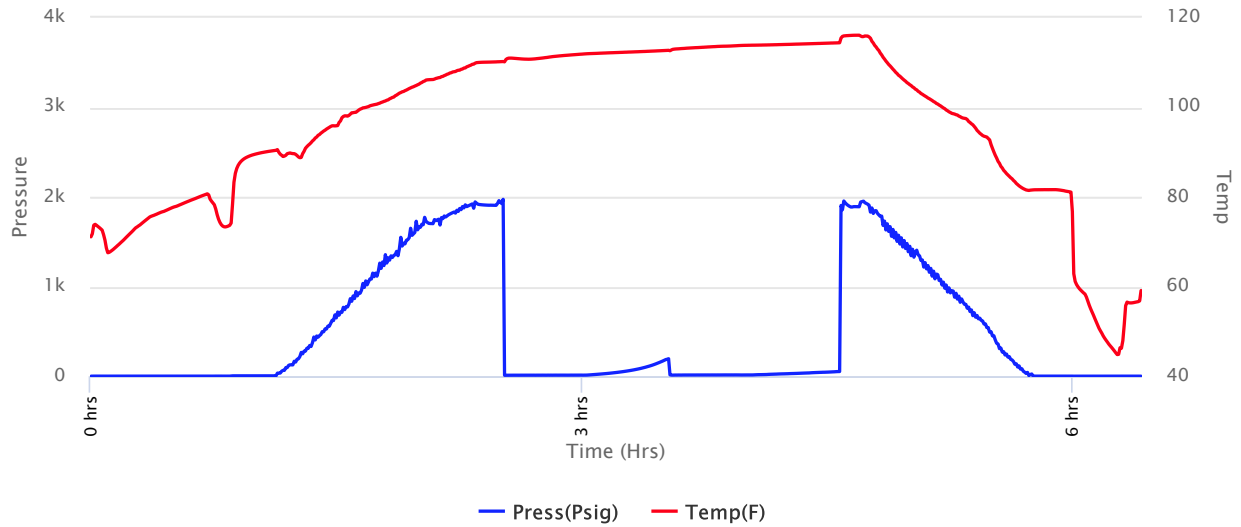
1st Open
 Minutes: 30
 Current Reading: .8" at 30 min
 Max Reading: .8"

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

2nd Open
 Minutes: 30
 Current Reading: .6" at 30 min
 Max Reading: .6"

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

Inside Recorder





Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EST
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Uploading recovery & pressures

DATE
 March
15
 2020

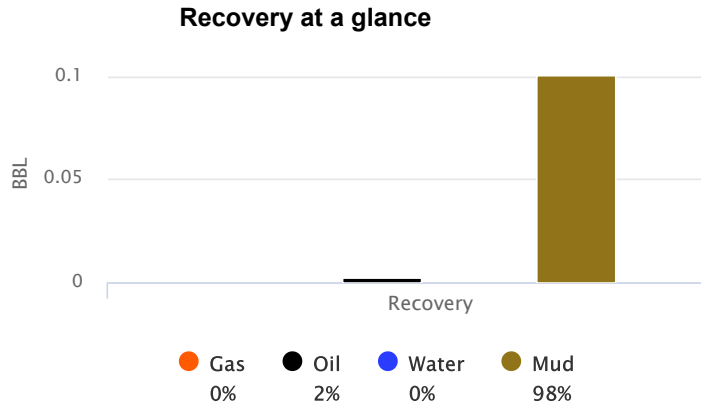
DST #1 **Formation: L/KC "H-I"** **Test Interval: 4003 - 4063'** **Total Depth: 4063'**
 Time On: 15:35 03/15 Time Off: 21:50 03/15
 Time On Bottom: 18:02 03/15 Time Off Bottom: 20:02 03/15

<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	SLOCM	0	2	0	98

Total Recovered: 10 ft
 Total Barrels Recovered: 0.1026

Reversed Out
NO

Initial Hydrostatic Pressure	1926	PSI
Initial Flow	11 to 12	PSI
Initial Closed in Pressure	196	PSI
Final Flow Pressure	13 to 16	PSI
Final Closed in Pressure	53	PSI
Final Hydrostatic Pressure	1918	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	73.3	%



GIP cubic foot volume: 0



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EST
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Uploading recovery & pressures

DATE
 March
15
 2020

DST #1 **Formation: L/KC "H-I"** **Test Interval: 4003 - 4063'** **Total Depth: 4063'**
 Time On: 15:35 03/15 Time Off: 21:50 03/15
 Time On Bottom: 18:02 03/15 Time Off Bottom: 20:02 03/15

BUCKET MEASUREMENT:

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

REMARKS:

Tool Sample: 0% Gas 10% Oil 0% Water 90% Mud



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EST

Operation:Uploading recovery &
pressuresField Name: Gove Townsite South
Pool: Infield
Job Number: 446
API #: 15-063-22372-00-00**DATE**March
15
2020

DST #1	Formation: L/KC "H-1"	Test Interval: 4003 - 4063'	Total Depth: 4063'
	Time On: 15:35 03/15	Time Off: 21:50 03/15	
	Time On Bottom: 18:02 03/15	Time Off Bottom: 20:02 03/15	

Down Hole Makeup

Heads Up: 30.11 FT	Packer 1: 3998.27 FT
Drill Pipe: 4000.81 FT <i>ID-3 1/4</i>	Packer 2: 4003.27 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3987.69 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4041 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH Jars Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 59.73	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.73 FT <i>ID-3 1/4</i>	
Change Over: 1 FT	
Perforations: (below): 23 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2714 EST
Field Name: Gove Townsite South
Pool: Infield

Operation:

Uploading recovery & pressures

Job Number: 446
API #: 15-063-22372-00-00

DATE
March
15
2020

DST #1 **Formation: L/KC "H-I"** **Test Interval: 4003 - 4063'** **Total Depth: 4063'**
Time On: 15:35 03/15 Time Off: 21:50 03/15
Time On Bottom: 18:02 03/15 Time Off Bottom: 20:02 03/15

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 63 **Filtrate:** 7.2 **Chlorides:** 2,000 ppm



Operation:

Uploading recovery & pressures

Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc - Rig 1
Elevation: 2714 EST
Field Name: Gove Townsite South
Pool: Infield
Job Number: 446
API #: 15-063-22372-00-00

DATE

March

15

2020

DST #1 Formation: L/KC "H- Test Interval: 4003 - Total Depth: 4063'
" 4063'

Time On: 15:35 03/15 Time Off: 21:50 03/15

Time On Bottom: 18:02 03/15 Time Off Bottom: 20:02 03/15

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EGL
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Uploading recovery & pressures

DATE
 March
16
 2020

DST #2 Formation: L/KC "K" Test Interval: 4086 - 4116' Total Depth: 4116'
 Time On: 08:26 03/16 Time Off: 15:07 03/16
 Time On Bottom: 10:17 03/16 Time Off Bottom: 13:17 03/16

Electronic Volume Estimate:
 29'

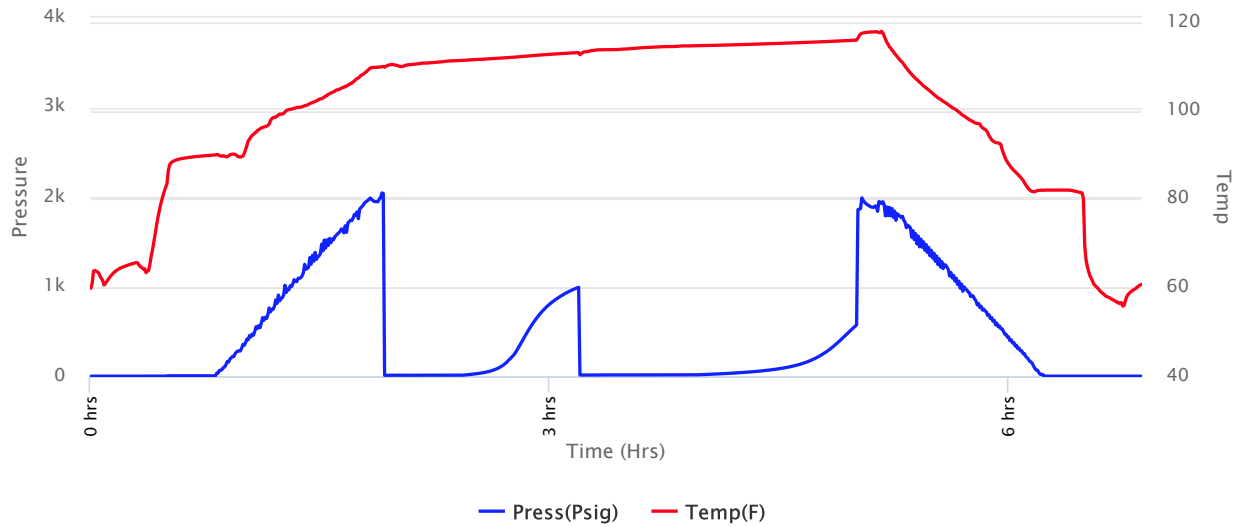
1st Open
 Minutes: 30
 Current Reading: 1.8" at 30 min
 Max Reading: 1.8"

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

2nd Open
 Minutes: 45
 Current Reading: .8" at 45 min
 Max Reading: .8"

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

Inside Recorder





Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EGL
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Uploading recovery & pressures

DATE
 March
16
 2020

DST #2 Formation: L/KC "K" Test Interval: 4086 - 4116' Total Depth: 4116'
 Time On: 08:26 03/16 Time Off: 15:07 03/16
 Time On Bottom: 10:17 03/16 Time Off Bottom: 13:17 03/16

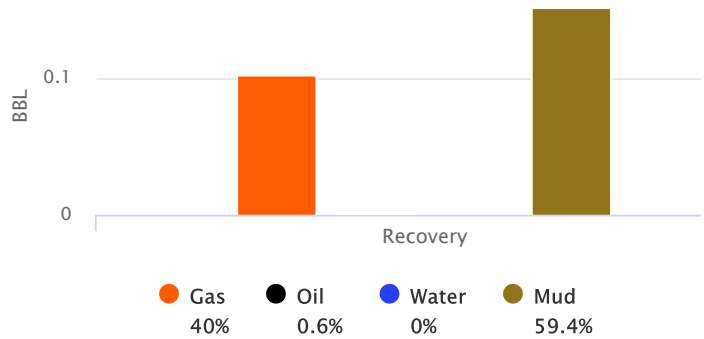
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
10	0.1026	G	100	0	0	0
15	0.1539	SLOCM	0	1	0	99

Total Recovered: 25 ft
 Total Barrels Recovered: 0.2565

Reversed Out
NO

Initial Hydrostatic Pressure	1947	PSI
Initial Flow	10 to 13	PSI
Initial Closed in Pressure	992	PSI
Final Flow Pressure	14 to 16	PSI
Final Closed in Pressure	573	PSI
Final Hydrostatic Pressure	1943	PSI
Temperature	116	°F
Pressure Change Initial Close / Final Close	42.3	%

Recovery at a glance



GIP cubic foot volume: 0.57605



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EGL
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Uploading recovery & pressures

DATE
 March
16
 2020

DST #2 Formation: L/KC "K" Test Interval: 4086 - 4116' Total Depth: 4116'
 Time On: 08:26 03/16 Time Off: 15:07 03/16
 Time On Bottom: 10:17 03/16 Time Off Bottom: 13:17 03/16

BUCKET MEASUREMENT:

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

REMARKS:

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



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EGL

Operation:Uploading recovery &
pressuresField Name: Gove Townsite South
Pool: Infield
Job Number: 446
API #: 15-063-22372-00-00**DATE**March
16
2020

DST #2	Formation: L/KC "K"	Test Interval: 4086 - 4116'	Total Depth: 4116'
	Time On: 08:26 03/16	Time Off: 15:07 03/16	
	Time On Bottom: 10:17 03/16	Time Off Bottom: 13:17 03/16	

Down Hole Makeup

Heads Up: 11.38 FT	Packer 1: 4081 FT
Drill Pipe: 4064.81 FT <i>ID-3 1/4</i>	Packer 2: 4086 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4070.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4088 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: 31	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/4</i>	
Change Over: 0 FT	
Perforations: (below): 30 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2714 EGL
Field Name: Gove Townsite South
Pool: Infield

Operation:

Uploading recovery & pressures

Job Number: 446
API #: 15-063-22372-00-00

DATE
March
16
2020

DST #2 **Formation: L/KC "K"** **Test Interval: 4086 - 4116'** **Total Depth: 4116'**
Time On: 08:26 03/16 Time Off: 15:07 03/16
Time On Bottom: 10:17 03/16 Time Off Bottom: 13:17 03/16

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 63 **Filtrate:** 7.2 **Chlorides:** 2,000 ppm



Operation:

Uploading recovery & pressures

Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc - Rig 1
Elevation: 2714 EGL
Field Name: Gove Townsite South
Pool: Infield
Job Number: 446
API #: 15-063-22372-00-00

DATE

March

16

2020

DST #2 Formation: L/KC "K" Test Interval: 4086 - 4116' Total Depth: 4116'

Time On: 08:26 03/16 Time Off: 15:07 03/16

Time On Bottom: 10:17 03/16 Time Off Bottom: 13:17 03/16

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EGL
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Tripping out of hole with test tool

DATE
 March
17
 2020

DST #3 **Formation: L/KC "L"- Marmaton** **Test Interval: 4122 - 4189'** **Total Depth: 4189'**
 Time On: 03:10 03/17 Time Off: 00:00 01/01
 Time On Bottom: 04:56 03/17 Time Off Bottom: 07:56 03/17

Electronic Volume Estimate:
 17'

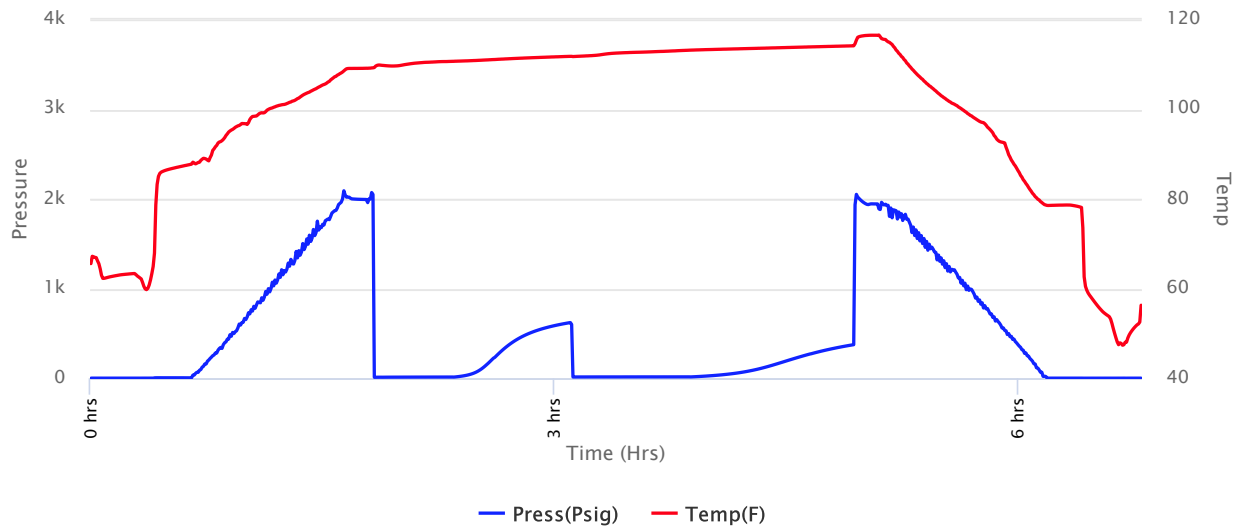
1st Open
 Minutes: 30
 Current Reading:
 1.5" at 30 min
 Max Reading: 1.5"

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

2nd Open
 Minutes: 45
 Current Reading:
 0" at 45 min
 Max Reading: 0"

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

Inside Recorder





Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EGL
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Tripping out of hole with test tool

DATE
 March
17
 2020

DST #3 **Formation: L/KC "L"- Marmaton** **Test Interval: 4122 - 4189'** **Total Depth: 4189'**
 Time On: 03:10 03/17 Time Off: 00:00 01/01
 Time On Bottom: 04:56 03/17 Time Off Bottom: 07:56 03/17

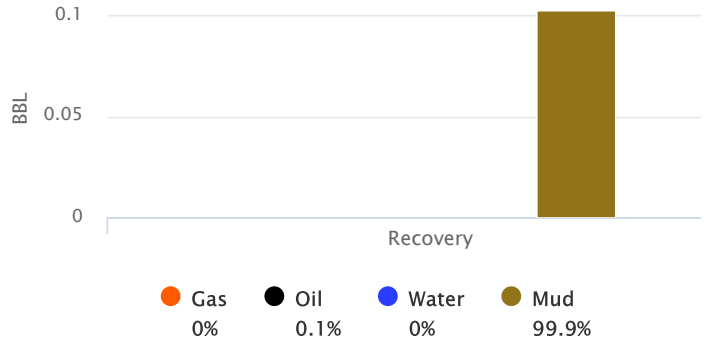
<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
10	0.1026	M (trace O)	0	.1	0	99.9

Total Recovered: 10 ft
 Total Barrels Recovered: 0.1026

Reversed Out
NO

Initial Hydrostatic Pressure	1999	PSI
Initial Flow	11 to 16	PSI
Initial Closed in Pressure	621	PSI
Final Flow Pressure	14 to 16	PSI
Final Closed in Pressure	375	PSI
Final Hydrostatic Pressure	1990	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	39.7	%

Recovery at a glance



GIP cubic foot volume: 0



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 2714 EGL
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Tripping out of hole with
 test tool

DATE
 March
17
 2020

DST #3	Formation: L/KC "L"- Marmaton	Test Interval: 4122 - 4189'	Total Depth: 4189'
	Time On: 03:10 03/17	Time Off: 00:00 01/01	
	Time On Bottom: 04:56 03/17	Time Off Bottom: 07:56 03/17	

BUCKET MEASUREMENT:

1st Open: 14" blow building to 1 1/4"
 1st Close: No BB
 2nd Open: Surface blow
 2nd Close: No BB

REMARKS:

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



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc -
 Rig 1
 Elevation: 2714 EGL

Operation:Tripping out of hole with
test toolField Name: Gove Townsite South
Pool: Infield
Job Number: 446
API #: 15-063-22372-00-00**DATE**March
17
2020

DST #3	Formation: L/KC "L"- Marmaton	Test Interval: 4122 - 4189'	Total Depth: 4189'
	Time On: 03:10 03/17	Time Off: 00:00 01/01	
	Time On Bottom: 04:56 03/17	Time Off Bottom: 07:56 03/17	

Down Hole Makeup

Heads Up: 37.14 FT	Packer 1: 4117.29 FT
Drill Pipe: 4126.86 FT <i>ID-3 1/4</i>	Packer 2: 4122.29 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4106.71 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4160 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH Jars Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 66.71	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.71 FT <i>ID-3 1/4</i>	
Change Over: 1 FT	
Perforations: (below): 30 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2714 EGL
Field Name: Gove Townsite South
Pool: Infield

Operation:

Tripping out of hole with
test tool

Job Number: 446
API #: 15-063-22372-00-00

DATE
March
17
2020

DST #3 **Formation: L/KC** **Test Interval: 4122 -** **Total Depth: 4189'**
 "L"- Marmaton **4189'**
Time On: 03:10 03/17 Time Off: 00:00 01/01
Time On Bottom: 04:56 03/17 Time Off Bottom: 07:56 03/17

Mud Properties

Mud Type: Chemical **Weight:** 9.4 **Viscosity:** 61 **Filtrate:** 8.8 **Chlorides:** 2,000 ppm



Operation:

Tripping out of hole with
test tool

Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2714 EGL
Field Name: Gove Townsite South
Pool: Infield
Job Number: 446
API #: 15-063-22372-00-00

DATE

March

17

2020

DST #3

**Formation: L/KC
"L"- Marmaton**

**Test Interval: 4122 -
4189'**

Total Depth: 4189'

Time On: 03:10 03/17

Time Off: 00:00 01/01

Time On Bottom: 04:56 03/17

Time Off Bottom: 07:56 03/17

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EGL
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Uploading recovery & pressures

DATE
 March
17
 2020

DST #4 **Formation: Altamont/Pawnee** **Test Interval: 4210 - 4270'** **Total Depth: 4270'**
 Time On: 22:27 03/17 Time Off: 05:41 03/18
 Time On Bottom: 00:41 03/18 Time Off Bottom: 03:41 03/18

Electronic Volume Estimate:
 150'

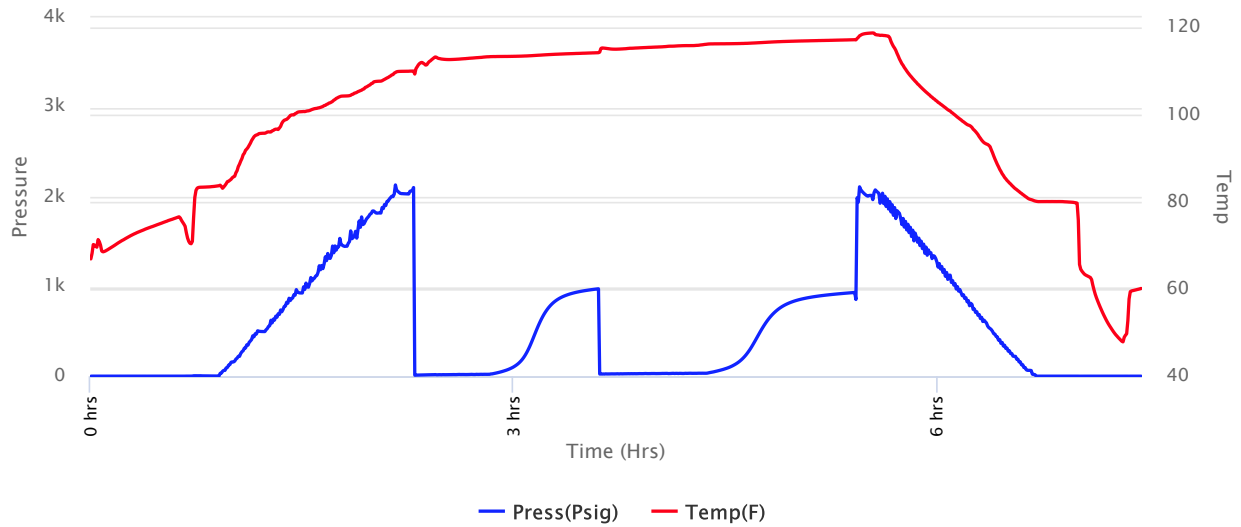
1st Open
 Minutes: 30
 Current Reading: 5.8" at 30 min
 Max Reading: 5.8"

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

2nd Open
 Minutes: 45
 Current Reading: 7.5" at 45 min
 Max Reading: 7.5"

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

Inside Recorder





Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EGL
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Uploading recovery & pressures

DATE
 March
17
 2020

DST #4 **Formation: Altamont/Pawnee** **Test Interval: 4210 - 4270'** **Total Depth: 4270'**
 Time On: 22:27 03/17 Time Off: 05:41 03/18
 Time On Bottom: 00:41 03/18 Time Off Bottom: 03:41 03/18

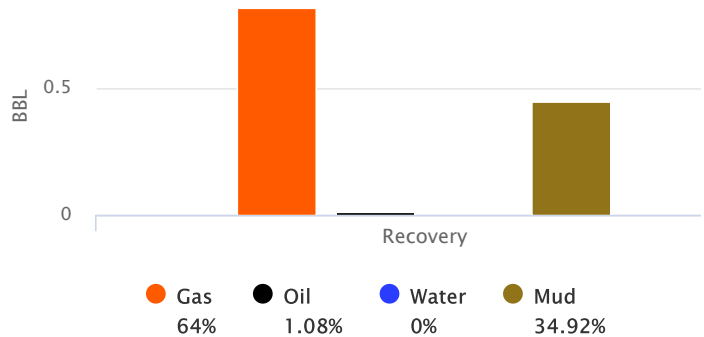
<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
80	0.8208	G	100	0	0	0
45	0.4617	SLOCM	0	3	0	97

Total Recovered: 125 ft
 Total Barrels Recovered: 1.2825

Reversed Out
NO

Initial Hydrostatic Pressure	2068	PSI
Initial Flow	11 to 22	PSI
Initial Closed in Pressure	975	PSI
Final Flow Pressure	24 to 34	PSI
Final Closed in Pressure	934	PSI
Final Hydrostatic Pressure	2063	PSI
Temperature	118	°F
Pressure Change Initial Close / Final Close	4.2	%

Recovery at a glance



GIP cubic foot volume: 4.60838



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EGL
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Uploading recovery & pressures

DATE
 March
17
 2020

DST #4 **Formation: Altamont/Pawnee** **Test Interval: 4210 - 4270'** **Total Depth: 4270'**
 Time On: 22:27 03/17 Time Off: 05:41 03/18
 Time On Bottom: 00:41 03/18 Time Off Bottom: 03:41 03/18

BUCKET MEASUREMENT:

1st Open: 1/2" blow building to 5 1/2"
 1st Close: No BB
 2nd Open: 1" blow building to 7 1/4"
 2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 17% Oil 0% Water 83% Mud



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EGL

Operation:Uploading recovery &
pressuresField Name: Gove Townsite South
Pool: Infield
Job Number: 446
API #: 15-063-22372-00-00**DATE**March
17
2020

DST #4	Formation: Altamont/Pawnee	Test Interval: 4210 - 4270'	Total Depth: 4270'
	Time On: 22:27 03/17	Time Off: 05:41 03/18	
	Time On Bottom: 00:41 03/18	Time Off Bottom: 03:41 03/18	

Down Hole Makeup

Heads Up: 12.01 FT	Packer 1: 4205.21 FT
Drill Pipe: 4189.65 FT <i>ID-3 1/4</i>	Packer 2: 4210.21 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4194.63 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4248 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: 59.79	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.79 FT <i>ID-3 1/4</i>	
Change Over: 1 FT	
Perforations: (below): 23 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2714 EGL
Field Name: Gove Townsite South
Pool: Infield

Operation:

Uploading recovery & pressures

Job Number: 446
API #: 15-063-22372-00-00

DATE
March
17
2020

DST #4 **Formation: Altamont/Pawnee** **Test Interval: 4210 - 4270'** **Total Depth: 4270'**
Time On: 22:27 03/17 Time Off: 05:41 03/18
Time On Bottom: 00:41 03/18 Time Off Bottom: 03:41 03/18

Mud Properties

Mud Type: Chemical **Weight:** 9.4 **Viscosity:** 61 **Filtrate:** 8.8 **Chlorides:** 2,000 ppm



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc - Rig 1
Elevation: 2714 EGL
Field Name: Gove Townsite South
Pool: Infield
Job Number: 446
API #: 15-063-22372-00-00

Operation:
Uploading recovery & pressures

DATE

March

17

2020

DST #4**Formation:
Altamont/Pawnee****Test Interval: 4210 -
4270'****Total Depth: 4270'**

Time On: 22:27 03/17

Time Off: 05:41 03/18

Time On Bottom: 00:41 03/18

Time Off Bottom: 03:41 03/18

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EGL
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Uploading recovery & pressures

DATE
 March
18
 2020

DST #5 **Formation: Myrick/Ft. Scott** **Test Interval: 4294 - 4400'** **Total Depth: 4400'**
 Time On: 22:14 03/18 Time Off: 05:50 03/19
 Time On Bottom: 00:40 03/19 Time Off Bottom: 03:40 03/19

Electronic Volume Estimate:
 27'

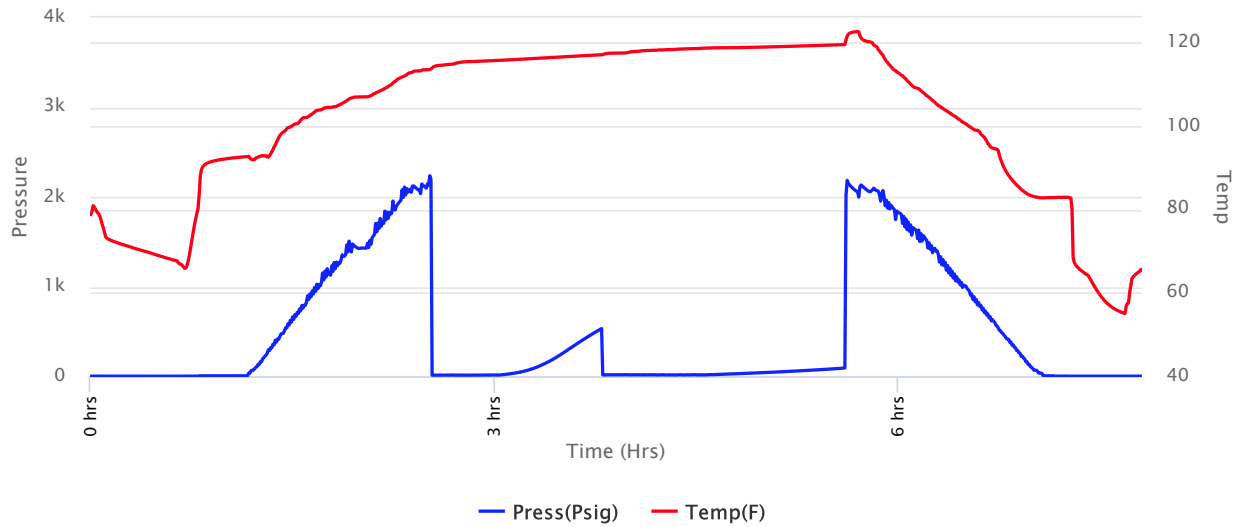
1st Open
 Minutes: 30
 Current Reading: 1.4" at 30 min
 Max Reading: 1.4"

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

2nd Open
 Minutes: 45
 Current Reading: .9" at 45 min
 Max Reading: .9"

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

Inside Recorder





Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EGL
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Uploading recovery & pressures

DATE
 March
18
 2020

DST #5 **Formation: Myrick/Ft. Scott** **Test Interval: 4294 - 4400'** **Total Depth: 4400'**
 Time On: 22:14 03/18 Time Off: 05:50 03/19
 Time On Bottom: 00:40 03/19 Time Off Bottom: 03:40 03/19

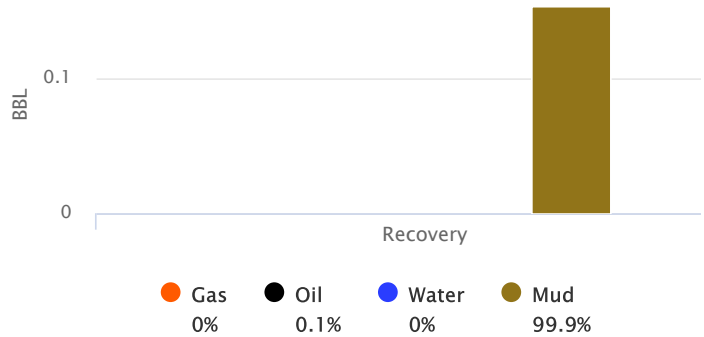
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
15	0.1539	M (trace O)	0	.1	0	99.9

Total Recovered: 15 ft
 Total Barrels Recovered: 0.1539

Reversed Out
NO

Initial Hydrostatic Pressure	2134	PSI
Initial Flow	12 to 14	PSI
Initial Closed in Pressure	532	PSI
Final Flow Pressure	14 to 16	PSI
Final Closed in Pressure	92	PSI
Final Hydrostatic Pressure	2120	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	82.8	%

Recovery at a glance



GIP cubic foot volume: 0



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EGL
 Field Name: Gove Townsite South
 Pool: Infield
 Job Number: 446
 API #: 15-063-22372-00-00

Operation:
 Uploading recovery & pressures

DATE
 March
18
 2020

DST #5 **Formation: Myrick/Ft. Scott** **Test Interval: 4294 - 4400'** **Total Depth: 4400'**
 Time On: 22:14 03/18 Time Off: 05:50 03/19
 Time On Bottom: 00:40 03/19 Time Off Bottom: 03:40 03/19

BUCKET MEASUREMENT:

1st Open: Surface blow building to 1 1/4"
 1st Close: No BB
 2nd Open: Surface blow building to 3/4"
 2nd Close: No BB

REMARKS:

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



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2714 EGL

Operation:Uploading recovery &
pressuresField Name: Gove Townsite South
Pool: Infield
Job Number: 446
API #: 15-063-22372-00-00**DATE**March
18
2020

DST #5	Formation: Myrick/Ft. Scott	Test Interval: 4294 - 4400'	Total Depth: 4400'
	Time On: 22:14 03/18	Time Off: 05:50 03/19	
	Time On Bottom: 00:40 03/19	Time Off Bottom: 03:40 03/19	

Down Hole Makeup

Heads Up: 23.12 FT	Packer 1: 4289.01 FT
Drill Pipe: 4284.56 FT <i>ID-3 1/4</i>	Packer 2: 4294.01 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4278.43 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4363 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: 105.99	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 62.99 FT <i>ID-3 1/4</i>	
Change Over: 1 FT	
Perforations: (below): 38 FT <i>4 1/2-FH</i>	



Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2714 EGL
Field Name: Gove Townsite South
Pool: Infield

Operation:

Uploading recovery & pressures

Job Number: 446
API #: 15-063-22372-00-00

DATE
March
18
2020

DST #5 **Formation: Myrick/Ft. Scott** **Test Interval: 4294 - 4400'** **Total Depth: 4400'**
Time On: 22:14 03/18 Time Off: 05:50 03/19
Time On Bottom: 00:40 03/19 Time Off Bottom: 03:40 03/19

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 60+ **Filtrate:** 8.0 **Chlorides:** 2,100 ppm



Operation:

Uploading recovery & pressures

Company: L. D. Drilling, Inc
Lease: Triglide #1-13

SEC: 13 TWN: 13S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc - Rig 1
Elevation: 2714 EGL
Field Name: Gove Townsite South
Pool: Infield
Job Number: 446
API #: 15-063-22372-00-00

DATE

March

18

2020

DST #5

**Formation:
Myrick/Ft. Scott**

**Test Interval: 4294 -
4400'**

Total Depth: 4400'

Time On: 22:14 03/18

Time Off: 05:50 03/19

Time On Bottom: 00:40 03/19

Time Off Bottom: 03:40 03/19

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

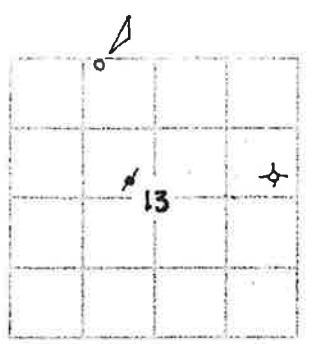
DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.
 LEASE * 1-13 TRIGLIDE
 FIELD WILDCAT
 LOCATION 115' FNL & 1425' FWL
 SEC 13 TWP 13s RGE 29w
 COUNTY Gove STATE KANSAS
 CONTRACTOR L. D. DRILLING, INC.
 DATE 3-9-2020 TO 3-20-2020
 WEL NO. 4500 TO 4505
 WEL NO. 3376 THE WEL. CHEMICAL

ELEVATIONS
 KBL 2714
 OF
 GL 2709
 Measurements Are All From 2714 KB
 CASING SIZE 8 5/8" @ 370'
 PRODUCTION
 ELECTRICAL SURVEYS
 DUAL IND., DENS-N., MICRO

SAMPLES SAVED FROM 3500 TO 4500
 DRILLING TIME KEPT FROM 3400 TO 4500
 SAMPLES EXAMINED FROM 3500 TO 4500
 GEOLOGICAL SUPERVISION FROM 3700 TO 4500
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2197-517	2195+519
B/ANH.	2232+482	2231+483
STOTLER	3465-751	3461-747
HEEBNER	3828-1114	3825-1111
LANSING	3868-1154	3864-1150
STARK	4096-1382	4092-1378
MARMATON	4189-1475	4182-1468
FORT SCOT	4357-1643	4351-1637
CHEROKEE	4385-1671	4376-1662
MISSISSIPPI 'U'	4449-1735	4444-1730



API: 15-063-22372

REMARKS

3-9-20 SPUD
 3-10 @ 440'
 3-11 @ 2142'
 3-12 @ 2825'
 3-13 @ 3335'
 3-14 @ 3622'
 3-15 @ 4030'
 3-16 @ 4116'
 3-17 @ 4189'
 3-18 @ 4270'
 3-19 @ 4400'
 3-20 @ 4500'

LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Case in.
- Electrode
- Wellbore
- Shut
- Debris

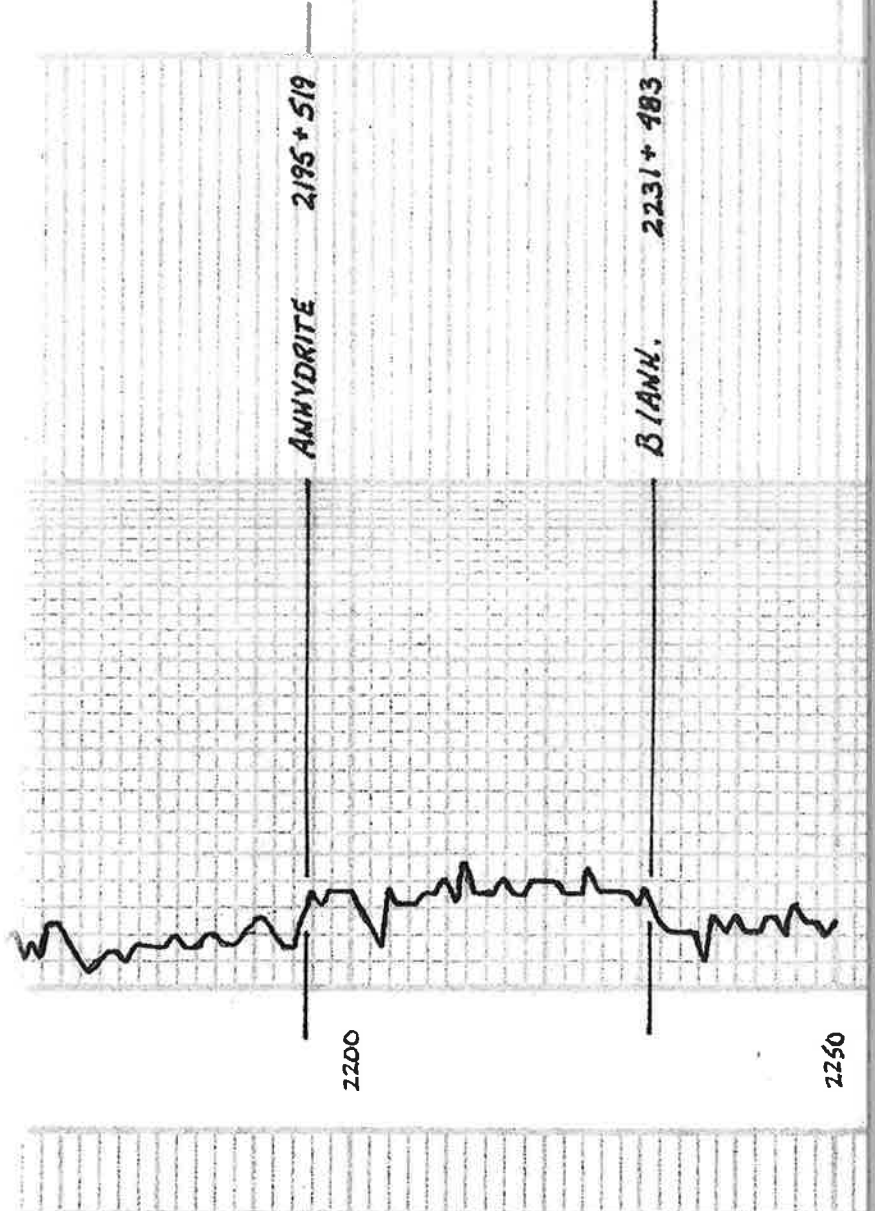
DRILLING TIME IN MINUTES PER FOOT
 Rate of Penetration Increase



LITHOLOGY

REMARKS

SAMPLE DESCRIPTIONS



2250

3400

3500

3600

STOTLER 3461-747

V BIT TRIP @ 3472

Samples are Logged

ls. wt Sil Foss Sil.A

ls. G. 15% chaly

ls. Bu G. Sil Foss

ls. 7% 15% Foss Sil.A

Sh. Rd

Sh. L14.5dy

ls. 7% Bu Sil. Calcitic

ls. L19. 15% Foss

Sh. G. Silly.

ls. 7% G. Foss Sil. Calcitic

Sh. L19.

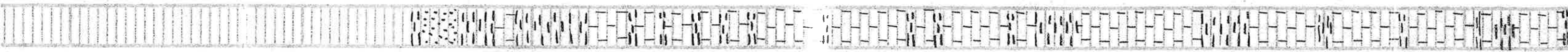
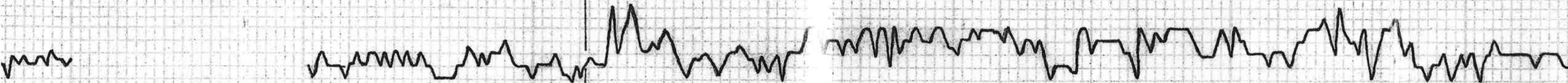
ls. wt 7% ool. Foss Calcitic

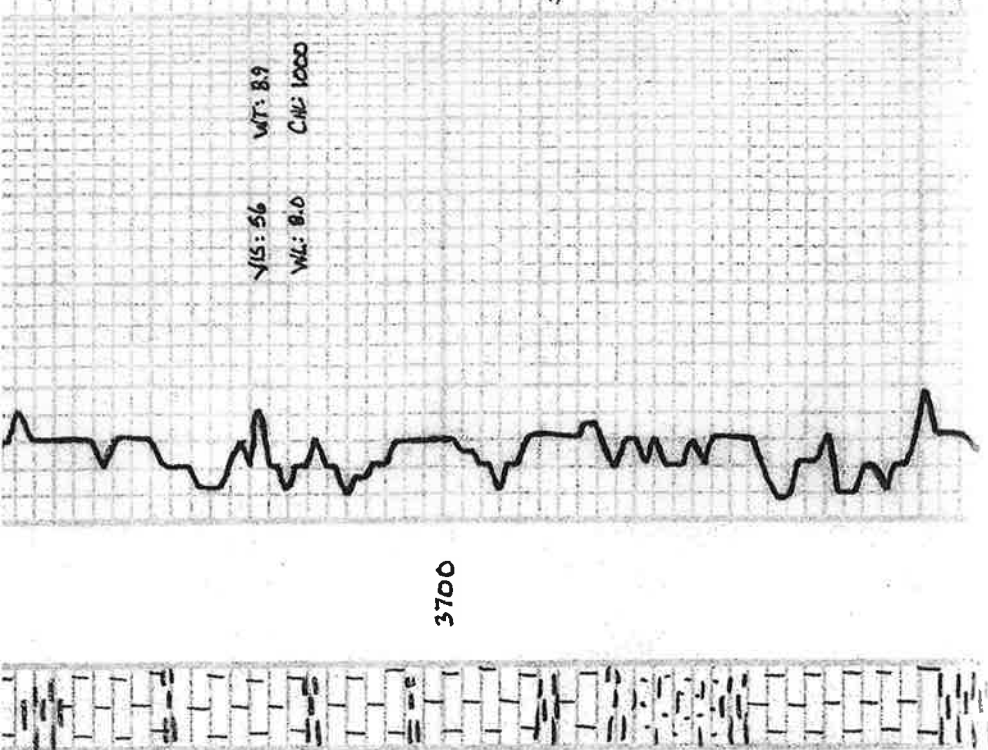
ls. wt Sil Foss Sil. Chaly

ls. wt chaly.

Sh. Rd

ls. wt Sil Foss Sil.A

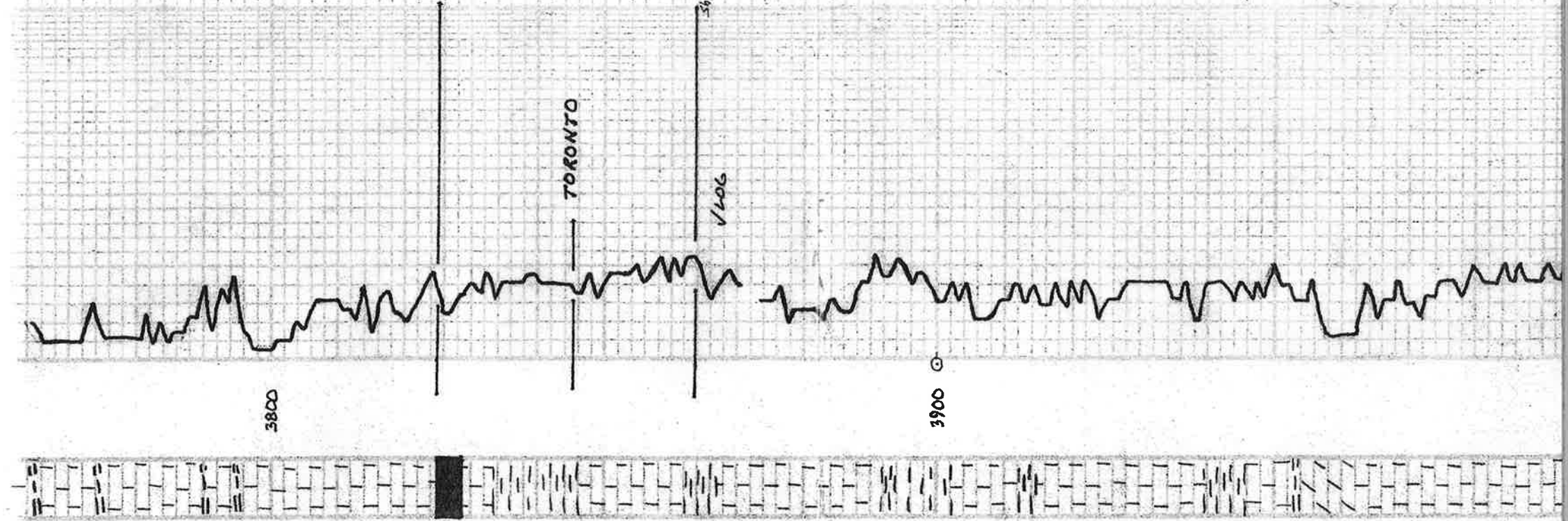




3700

VIS: 56 WT: 89
 WC: 8.0 CW: 1000

Sh. Rd
 LS. wt. Sil. Foss. Sil. A
 LS. wt. Foss. Calcitic
 LS. wt. Sil. Foss. ch. lly
 LS. To B. Sil. Foss.
 Sh. Dk. G.
 LS. Sil. G. V. Sil. Foss.
 Sh. Clay. Silty. Saly.
 LS. wt. Sil. Foss. Foss.
 Sh. Rd. Dk. G.



3800

3900

LS. To wt. Micro. Foss. Sil. A
 A wt. To
 LS. wt. L. G. Foss.
 LS. wt. ool. Foss. Calcitic
 LS. wt. Sil. Foss. Sil. A
 LS. To B. V. Sil. Foss. Sil. ch. lly
HEBNER 3825-1111
 Sh. Blk. Calc.
 LS. R. G. Sil. Foss.
 Sh. L. Blk.
 LS. wt. V. Sil. Foss. Sil. A
LANSING 3864-1150
 Sh. Rd.
 LS. wt. V. Sil. Foss. V. Sil. A
 LS. L. G. wt. Sil. Foss. Calcitic
 Orange To
 Sh. Rd. L. Rd.
 LS. To Foss.
 Sh. Rd.
 LS. To V. Sil. Foss. Sil. A
 LS. wt. V. Sil. Foss.
 Sh. L. G.
 LS. wt. V. Sil. Foss. Sil. ch. lly
 Red wt. V. Foss. Sil.
 LS. To wt. Foss. ool.
 LS. wt. ch. lly.
 A wt.
 LS. G. V. Sil. A

TORONTO

VLOG

Δ wt.

LS. Gy. VSI: A

DST (1) 4003-4063
15' OPEN: Blow built to 1 1/2"

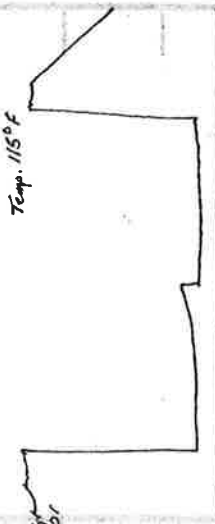
MUNCIE CREEK 4004-1290

Tool Sample
107: oil
90% Mud

Rec. 10' VSOCM (27: oil)

FP: 11-12 13-16 *
SIP: 196-53 *

Temp. 115°F



Sh. Lt. G.

LS. Tan. Silty Foss. Silty. P. V. Vis. Dull Flour V. F. Odor
LT. Bl. Sp. Silty. S. V. S. F. Dull Flour V. F. Odor

Sh. Dk. G.

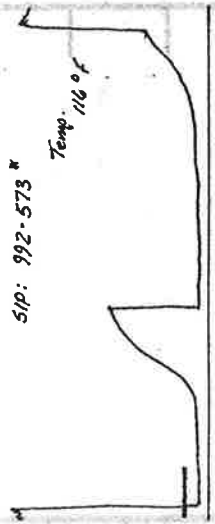
DST (2) 4086-4116
15' OPEN: Blow built to 1 1/2"

Tool Sample
37: oil
97% Mud

Rec. 10' G.L.P.
15' VSOCM (17: oil 97% M)

FP: 10-13 14-16 *
SIP: 992-573 *

Temp. 116°F



Sh. Rd. Purple

Sh. Lt. Blue Gy.

LS. Tan. Lt. G. V. Silty Foss. V. Silty. Ch. No. Odor

STARK 4092-1378
Sh. Blue Carb.

LS. Dk. G. V. Silty Foss.

Sh. Lt. G.

LS. Tan. Silty Foss. Silty. P. V. Vis. Dull Flour F. Odor
LT. Bl. Sp. Silty. S. V. S. F. Dull Flour F. Odor

LS. Lt. G. V. V. S. D

Sh. Blue Carb.

LS. Tan. Silty Foss. w/ Dk. Oil. P. V. Vis. Dull Flour No. Odor

B/K 4199-1435

Sh. Lt. G. Dk.

LS. Tan. Silty Foss. Carbonatic P. V. Vis. Dull Flour V. F. Odor, 99.5% M

Sh. Rd.

Sh. Lt. G. Silty. S. D.

MARMATON 4182-1468

LS. Tan. Lt. G. Silty Foss. P. V. Vis. Dull Flour No. Odor
LT. Bl. Sp. Silty. S. V. S. F. Dull Flour No. Odor

Sh. Blue Gy. C.

LS. w/ Lt. G. V. S. A

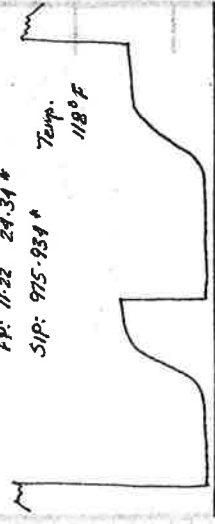
DST (4) 4210-4270
15' OPEN: Blow built to 5 1/2"

Tool Sample
177: oil
83% Mud

Rec. 80' G.L.P.
95' VSOCM (37: oil 97% M)

FP: 11-16 14-16 *
SIP: 621-375 *

Temp. 115°F



Sh. Dk. G.

LS. Tan. Silty Foss. P. V. Vis. Dull Flour No. Odor
LT. Bl. Sp. Silty. S. V. S. F. Dull Flour No. Odor

Sh. G. G.

LS. Tan. Lt. G. V. Silty Foss. Silty. Ch. No. Odor

PAWNEE 4262-1548

LS. Tan. Silty Foss. w/ F. V. Vis. Dull Flour V. F. Odor
LT. Bl. Sp. Silty. S. V. S. F. Dull Flour V. F. Odor

VIS: 63 WT: 9.2
WIL: 7.2 CHL: 2000

DST (4)

VIS: 60 WT: 9.2
WIL: 8.0 CHL: 2100

LS. Lt. G. V. Silty Foss. Silty. Ch. No. Odor

LS. G. V. Fossil - Silty.

Sh. Blue Carb.

Sh. Dk. G.

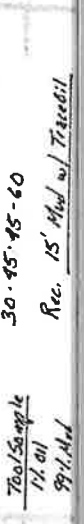
DST (5) 4294-4400
15' OPEN: Blow built to 1 1/2"

Tool Sample
177: oil
99% Mud

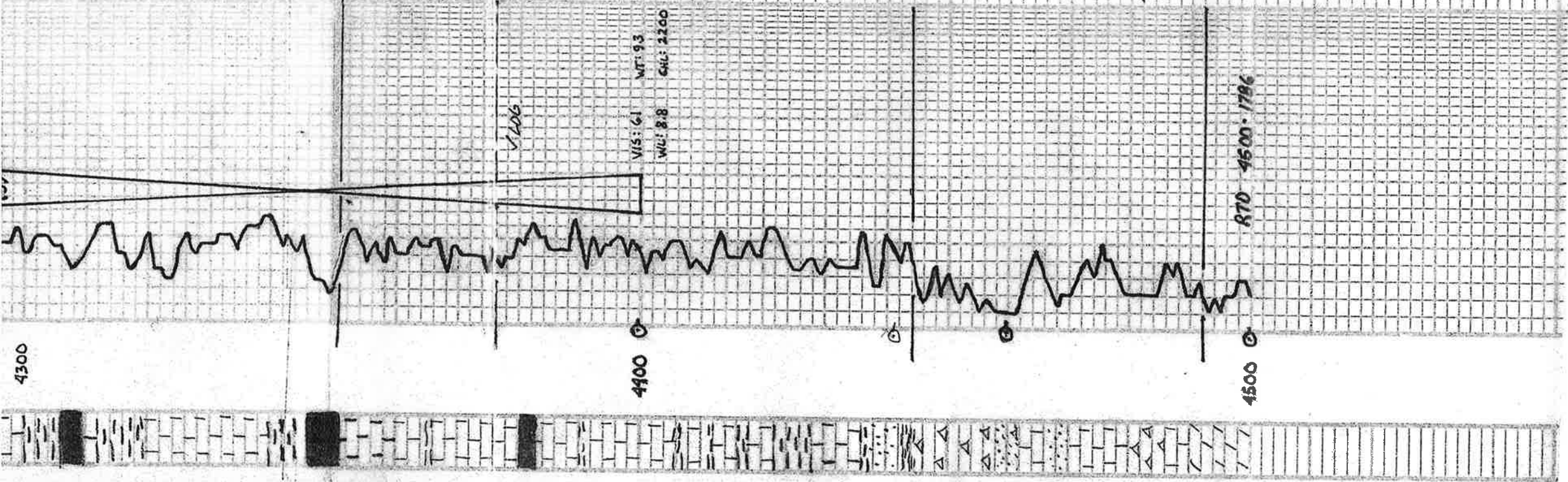
Rec. 15' Mud w/ Trace Oil

FP: 10-15 15-60
SIP: 95-45-60

Temp. 118°F



4300



4100

VIS: 61 WT: 93
WIL: 8.8 CAL: 2.100

4500

RTD 4500-1786

DST (S) 4294-4400

150DEN: Blow built to 1 1/4"

2-00DEN: " " " 3/4"

30-95-95-60

Rec. 15' Mud w/ Traceoil

FP: 12-14 M 16*

SIP: 532-92*

Sh. Blk Carb.

Sh. DK G.

Sh. Blue G.

LS. Tan. ool. VSI. Ch. R. 160' No. 100

LS. Tan. Spid. SA 55-60' No. 100

Sh. Blk Carb.

FORT SCOTT 4351-1637

LS. Tan. VSI. Foss. Sil. A.

LS. G. VSI. Foss. Sil. A.

CHEROKEE 4376-1662

Sh. Blk Carb.

LS. Tan. Foss. ool. Sil. Ch. L.

LS. Tan. G. Sil. A. Caliche

Sh. DK G.

LS. G. R. Sil. A.

Sh. Blue G.

Sh. Lt. Blue

LS. Tan. R. Sil. A.

LS. R. Sil. Saly

Sd. Cl. M. G. R. Sil. R.

MISSISSIPPI 'U' 4444-1730

A. Oryz. w/ R. Foss. Cal

LS. Tan. Oryz. Trop. Cal. Pin. Pt. P.

LS. Tan. G. Sil. A.

Sd. Foss. V. G. Sil. R.

LS. WT. G. Sil. Saly w/ R. Foss.

A. wt. Tan. R.

Dol. Tan. Foss.

MISS. SPERGEN 4492-1778

Pool w/ Fossils 'Unggy' No. 100



HURRICANE SERVICES INC

Customer	LD DRILLING Inc	Lease & Well #	TRIGLIDE ## 1-13			Date	3/20/2020	
Service District	Oakley Ks	County & State	Gove KS	Legals S/T/R	13-13S-29W	Job #		
Job Type	Plug	<input type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input type="checkbox"/> YES <input type="checkbox"/> No	Ticket #	ICT 3435
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures						
73	Josh Mosier	<input type="checkbox"/> Hard hat		<input type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
230	Jesse Jones	<input type="checkbox"/> H2S Monitor		<input type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
242	Kale Oches	<input type="checkbox"/> Safety Footwear		<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations		
		<input type="checkbox"/> FRC/Protective Clothing		<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input type="checkbox"/> Muster Point/Medical Locations		
		<input type="checkbox"/> Hearing Protection		<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			
Comments								
Direction: St Frances North on Rd 27 to Rd R 1/2 mile west U turn in to field south into rig								

Product/ Service Code	Description	Unit of Measure	Quantity				Net Amount
c010	Cement Pump	ea	1.00				\$600.00
m015	Light Equipment Mileage	mi	36.00				\$57.60
m010	Heavy Equipment Mileage	mi	36.00				\$115.20
m020	Ton Mileage	tm	345.85				\$415.02
cp055	H-Plug	sks	240.00				\$2,496.00
FE290	8 5/8" Wooden Plug	ea	1.00				\$120.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.? Based on this job, how likely is it you would recommend HSI to a colleague? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely	Gross:	Net:	\$3,803.82
	Total Taxable \$ -	Tax Rate:	Sale Tax: \$ -
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.			
HSI Representative: <i>Josh Mosier</i>			

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 3/4% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT

Customer: LD Drilling & Exploration	Well: Triglide #1-13	Ticket: ICT3396
City, State: Great Bend, KS	County: Gove, KS	Date: 3/9/2020
Field Rep: Rick - T/P	S-T-R: Sec 13 - T13S - R29W	Service: Cement - Surface Casing

Downhole Information	
Hole Size:	12.25 in
Hole Depth:	373 ft
Casing Size:	8.625 in
Casing Depth:	373.7 ft
Drill Pipe	in
Depth:	ft
Tool / Packer:	
Setting Depth:	370 ft
Displacement:	22.5 bbls

Calculated Slurry	
Weight:	14.8 # / sx
Water / Sx:	5.55 gal / sx
Yield:	1.23 ft ³ / sx
Bbls / Ft.:	0.0735
Depth:	370 ft
Annular Volume:	27.2 bbls
Excess:	150%
Total Slurry:	71.2 bbls
Total Sacks:	325 sx

Product	% / #	#
Class A	60.00	18330
Poz	40.00	9620
Gel	2.00	559
CaCl	3.00	839
Gypsum		
Metso		
PhenoSeal		
Flo Seal		
Salt (bww)		
Total		29,348

TIME	RATE	PSI	BBLs	REMARKS
14:00				Call out
18:00				Depart yard
18:45				Arrive on locn. Rig drilling 12.25" OH
18:50				JSA, discuss moving on, spotting & rig-up of equipment
18:55				Move on, spot & rig-up equipment
19:15				Rig-up complete. Rig TD OH @ 373', circulate & condition hole
19:40				Rig TOH w/ DP & BHA
20:10				Start to RIH w/ csg
21:00				Csg @ setting depth.
21:10				Circulate & condition hole
21:25	4.0	170.0	5.0	Pump water ahead
21:28	4.7	350.0	71.2	Mix & pump 325sx cement slurry @ 14.8ppg. Y - 1.23cuft/sk; MR - 5.55g/sk
21:45	5.7	310.0		Displace w/ freshwater
21:51			22.5	Shutdown & shut-in. NOTE: 5bbls / 23sx cement circulated to surface
21:55				Wash-up pumps & lines
22:00				JSA, discuss rigging down & racking up equipment
22:05				Rig down & rack up
22:25				JSA, discuss journey management
22:30				Depart locn
				Thanks for calling Hurricane Services Inc

CREW		UNIT	SUMMARY		
Cementer:	Scott Green	74	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Jesse Jones	230	4.8 bpm	277 psi	99 bbls
Bulk #1:	Kale Ochs	194 / 254			
Bulk #2:	Travis Thrasher				