

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)</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	SPORT 1-20
Doc ID	1548500

Tops

Name	Top	Datum
Anhydrite	1909	+588
Base Anhydrite	1940	+557
Stotler	3182	-685
Heebner	3554	-1057
Lansing	3592	-1095
Stark	3844	-1347
Pawnee	4038	-1541
Fort Scott	4097	-1600
Cherokee	4122	-1625
Mississippi	4192	-1697
Miss. Spergen	4240	-1743



Company: L. D. Drilling, Inc
Lease: Sport #1-20

SEC: 20 TWN: 15S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2493 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 463
 API #: 15-063-22379

Operation:
 Uploading recovery & pressures

DATE
 December
10
 2020

DST #1 Formation: LKC "A" Test Interval: 3839 - Total Depth: 3865'
3865'

Time On: 01:13 12/10 Time Off: 07:14 12/10
 Time On Bottom: 03:37 12/10 Time Off Bottom: 05:37 12/10

Electronic Volume Estimate:
 7'

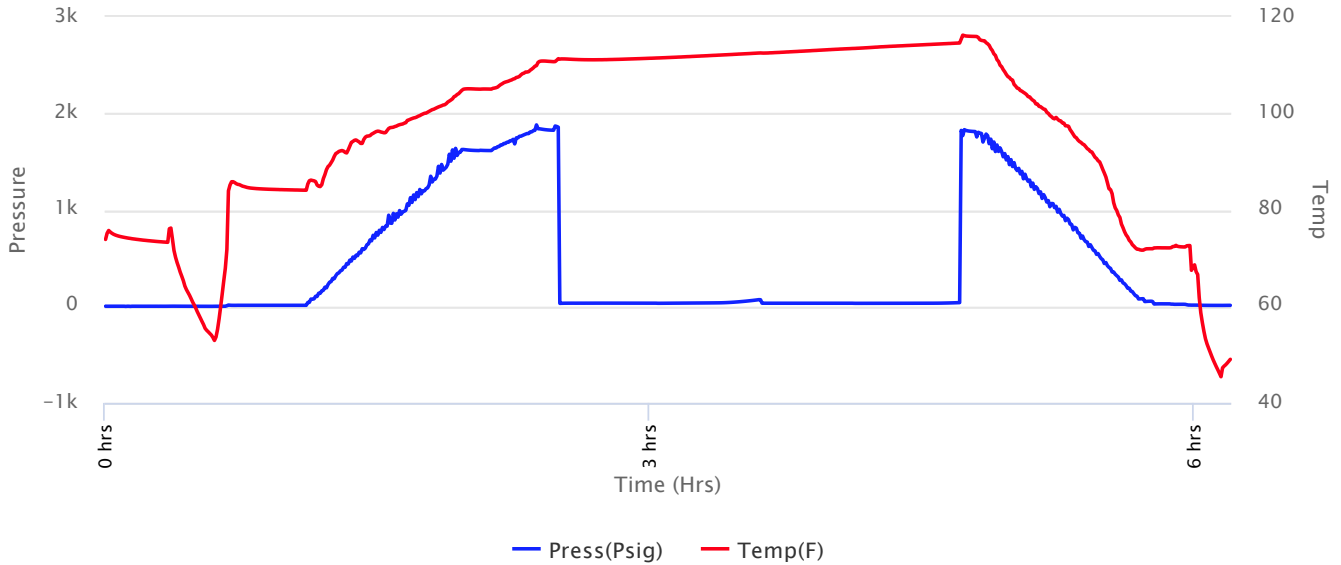
1st Open
 Minutes: 30
 Current Reading: .6" at 30 min
 Max Reading: .6"

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: Sport #1-20

SEC: 20 TWN: 15S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2493 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 463
 API #: 15-063-22379

Operation:
 Uploading recovery & pressures

DATE
 December
10
 2020

DST #1 **Formation: LKC "A"** **Test Interval: 3839 - 3865'** **Total Depth: 3865'**
 Time On: 01:13 12/10 Time Off: 07:14 12/10
 Time On Bottom: 03:37 12/10 Time Off Bottom: 05:37 12/10

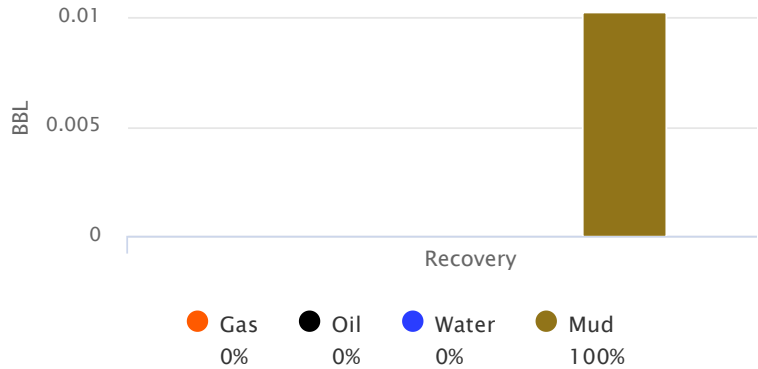
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
1	0.01026	M	0	0	0	100

Total Recovered: 1 ft
 Total Barrels Recovered: 0.01026

Reversed Out
NO

Initial Hydrostatic Pressure	1830	PSI
Initial Flow	31 to 33	PSI
Initial Closed in Pressure	70	PSI
Final Flow Pressure	33 to 33	PSI
Final Closed in Pressure	38	PSI
Final Hydrostatic Pressure	1819	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	45.8	%

Recovery at a glance



GIP cubic foot volume: 0



Company: L. D. Drilling, Inc
Lease: Sport #1-20

SEC: 20 TWN: 15S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2493 EGL
Field Name: Wildcat
Pool: Infield
Job Number: 463
API #: 15-063-22379

Operation:
Uploading recovery &
pressures

DATE
December
10
2020

DST #1 Formation: LKC "A" Test Interval: 3839 - Total Depth: 3865'
3865'

Time On: 01:13 12/10 Time Off: 07:14 12/10
Time On Bottom: 03:37 12/10 Time Off Bottom: 05:37 12/10

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: 1/4" Blow built to 1" over 30 min.

1st Close: No Return Blow.

2nd Open: Surface Blow

2nd Close: No Return Blow

REMARKS:

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



Company: L. D. Drilling, Inc
Lease: Sport #1-20

SEC: 20 TWN: 15S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2493 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 463
 API #: 15-063-22379

Operation:
 Uploading recovery & pressures

DATE
 December
11
 2020

DST #2 **Formation: Pawnee** **Test Interval: 4029 - 4060'** **Total Depth: 4060'**
 Time On: 05:50 12/11 Time Off: 13:01 12/11
 Time On Bottom: 08:00 12/11 Time Off Bottom: 11:00 12/11

Electronic Volume Estimate:
 1277'

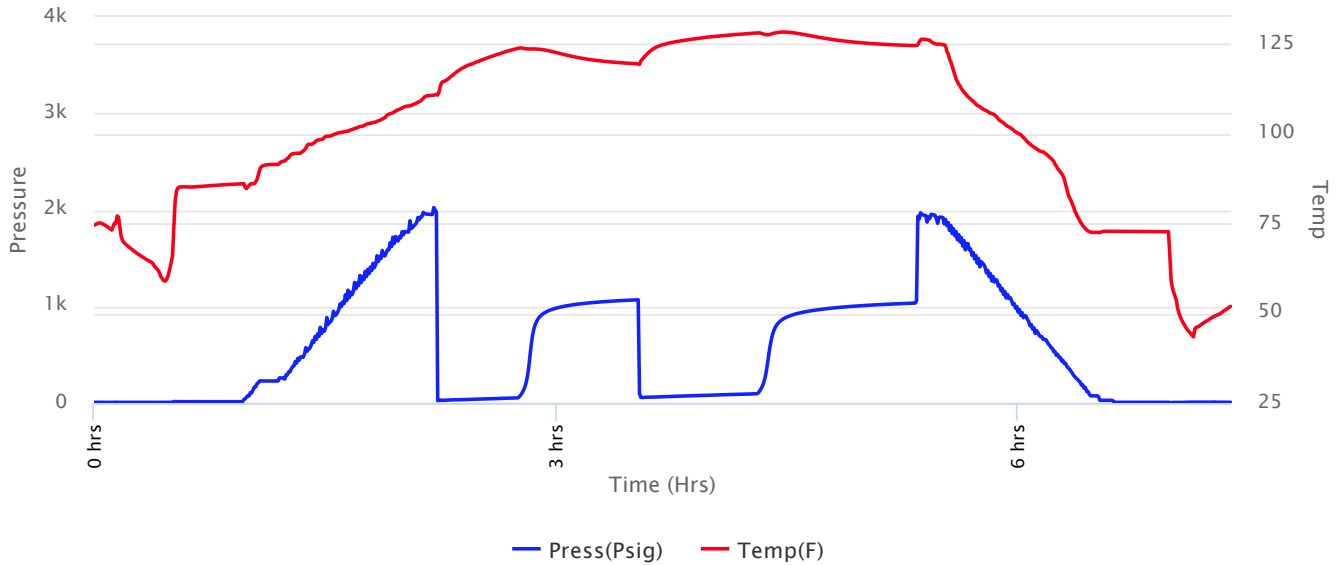
1st Open
 Minutes: 30
 Current Reading: 54.3" at 30 min
 Max Reading: 54.3"

1st Close
 Minutes: 45
 Current Reading: .5" at 45 min
 Max Reading: .5"

2nd Open
 Minutes: 45
 Current Reading: 74.5" at 45 min
 Max Reading: 74.5"

2nd Close
 Minutes: 60
 Current Reading: .1" at 60 min
 Max Reading: .3"

Inside Recorder





Company: L. D. Drilling, Inc
Lease: Sport #1-20

SEC: 20 TWN: 15S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2493 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 463
 API #: 15-063-22379

Operation:
 Uploading recovery & pressures

DATE
 December
11
 2020

DST #2 **Formation: Pawnee** **Test Interval: 4029 - 4060'** **Total Depth: 4060'**
 Time On: 05:50 12/11 Time Off: 13:01 12/11
 Time On Bottom: 08:00 12/11 Time Off Bottom: 11:00 12/11

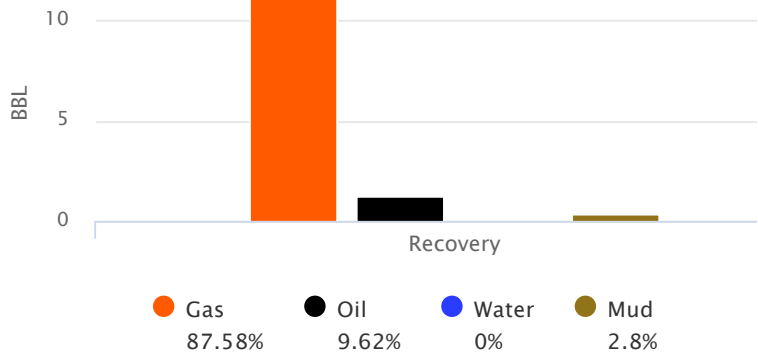
Recovered						
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1040	10.6704	G	100	0	0	0
73	0.74898	SLGCO	10	90	0	0
63	0.64638	MCHGCO	30	45	0	25
63	0.64638	HGCHMCO	30	40	0	30

Total Recovered: 1239 ft
 Total Barrels Recovered: 12.71214

Reversed Out
NO

Initial Hydrostatic Pressure	1953	PSI
Initial Flow	28 to 51	PSI
Initial Closed in Pressure	1068	PSI
Final Flow Pressure	60 to 91	PSI
Final Closed in Pressure	1033	PSI
Final Hydrostatic Pressure	1904	PSI
Temperature	129	°F
Pressure Change Initial Close / Final Close	3.3	%

Recovery at a glance



GIP cubic foot volume: 62.50694



Company: L. D. Drilling, Inc
Lease: Sport #1-20

SEC: 20 TWN: 15S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2493 EGL
Field Name: Wildcat
Pool: Infield
Job Number: 463
API #: 15-063-22379

Operation:
Uploading recovery &
pressures

DATE
December
11
2020

DST #2 Formation: Pawnee Test Interval: 4029 - Total Depth: 4060'
4060'
Time On: 05:50 12/11 Time Off: 13:01 12/11
Time On Bottom: 08:00 12/11 Time Off Bottom: 11:00 12/11

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: BoB in 4 min. 34 sec.

1st Close: Surface return started at 4 min. 15 sec. built to 3/4" over 45 min.

2nd Open: BoB in 4 min. 15 sec.

2nd Close: Surface Return started at 5 min. Built to 1/4" then died back to weak surface blow over 60 min.

REMARKS:

Tool Sample: 10% Gas 80% Oil 0% Water 10% Mud

Gravity: 34.1 @ 60 °F



Company: L. D. Drilling, Inc
Lease: Sport #1-20

SEC: 20 TWN: 15S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2493 EGL
Field Name: Wildcat
Pool: Infield
Job Number: 463
API #: 15-063-22379

Operation:
Uploading recovery &
pressures

DATE
December
11
2020

DST #2 Formation: Pawnee Test Interval: 4029 - Total Depth: 4060'
4060'
Time On: 05:50 12/11 Time Off: 13:01 12/11
Time On Bottom: 08:00 12/11 Time Off Bottom: 11:00 12/11

Mud Properties

Mud Type: Chem. **Weight:** 9.0 **Viscosity:** 58 **Filtrate:** 8.8 **Chlorides:** 2000 ppm



Company: L. D. Drilling, Inc
Lease: Sport #1-20

SEC: 20 TWN: 15S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2493 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 463
 API #: 15-063-22379

Operation:
 Uploading recovery & pressures

DATE
 December
12
 2020

DST #3 Formation: Johnson Test Interval: 4140 - 4180' Total Depth: 4180'

Time On: 04:09 12/12 Time Off: 11:22 12/12
 Time On Bottom: 06:05 12/12 Time Off Bottom: 09:05 12/12

Electronic Volume Estimate:
 975'

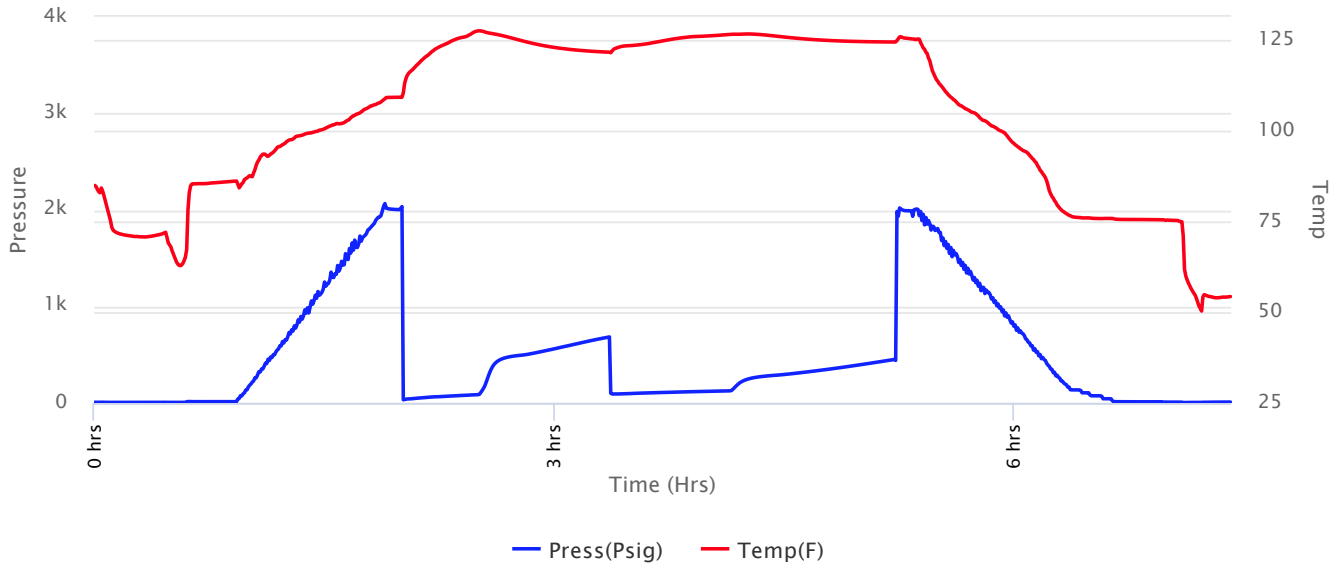
1st Open
 Minutes: 30
 Current Reading: 51.8" at 30 min
 Max Reading: 51.8"

1st Close
 Minutes: 45
 Current Reading: 1.6" at 45 min
 Max Reading: 1.6"

2nd Open
 Minutes: 45
 Current Reading: 39.4" at 45 min
 Max Reading: 39.4"

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

Inside Recorder





Company: L. D. Drilling, Inc
Lease: Sport #1-20

SEC: 20 TWN: 15S RNG: 29W
 County: GOVE
 State: Kansas
 Drilling Contractor: L. D. Drilling, Inc - Rig 1
 Elevation: 2493 EGL
 Field Name: Wildcat
 Pool: Infield
 Job Number: 463
 API #: 15-063-22379

Operation:
 Uploading recovery & pressures

DATE
 December
12
 2020

DST #3 Formation: Johnson Test Interval: 4140 - 4180' Total Depth: 4180'

Time On: 04:09 12/12 Time Off: 11:22 12/12
 Time On Bottom: 06:05 12/12 Time Off Bottom: 09:05 12/12

Recovered

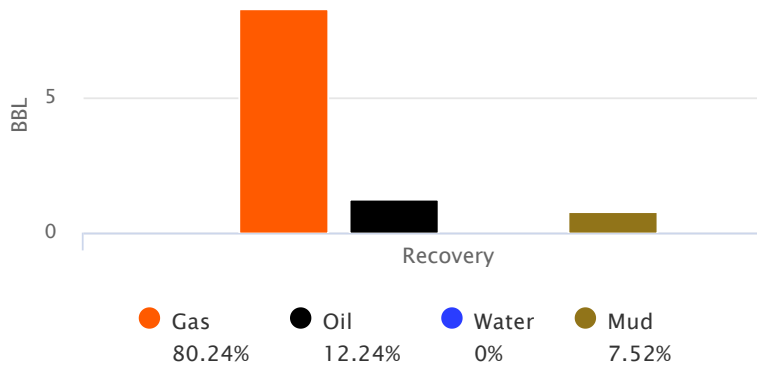
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
738	7.57188	G	100	0	0	0
15	0.1539	SLGCO	15	85	0	0
63	0.64638	HGCHMCO	30	40	0	30
63	0.64638	GCHMCO	20	45	0	35
63	0.64638	MCGCO	25	55	0	20
63	0.64638	HGCHMCO	30	35	0	35

Total Recovered: 1005 ft
 Total Barrels Recovered: 10.3113

Reversed Out
NO

Initial Hydrostatic Pressure	2015	PSI
Initial Flow	39 to 85	PSI
Initial Closed in Pressure	684	PSI
Final Flow Pressure	93 to 124	PSI
Final Closed in Pressure	446	PSI
Final Hydrostatic Pressure	1995	PSI
Temperature	128	°F
Pressure Change Initial Close / Final Close	34.8	%

Recovery at a glance



GIP cubic foot volume: 46.45249



Company: L. D. Drilling, Inc
Lease: Sport #1-20

SEC: 20 TWN: 15S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2493 EGL
Field Name: Wildcat
Pool: Infield
Job Number: 463
API #: 15-063-22379

Operation:
Uploading recovery &
pressures

DATE
December
12
2020

DST #3 Formation: Johnson Test Interval: 4140 - Total Depth: 4180'
4180'

Time On: 04:09 12/12 Time Off: 11:22 12/12
Time On Bottom: 06:05 12/12 Time Off Bottom: 09:05 12/12

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: BoB in 4 min. 48 sec.

1st Close: Weak surfac Return started at 5 min. Built to 2" over 45 min.

2nd Open: BoB in 6 min. 38 sec.

2nd Close: Surface Return started at 7 min. Built to 1 1/2" over 60 min.

REMARKS:

Tool Sample: 20% Gas 65% Oil 0% Water 15% Mud

Gravity: 32.4 @ 60 °F



Company: L. D. Drilling, Inc
Lease: Sport #1-20

SEC: 20 TWN: 15S RNG: 29W
County: GOVE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2493 EGL
Field Name: Wildcat
Pool: Infield
Job Number: 463
API #: 15-063-22379

Operation:
Uploading recovery &
pressures

DATE
December
12
2020

DST #3 Formation: Johnson Test Interval: 4140 - Total Depth: 4180'
4180'

Time On: 04:09 12/12 Time Off: 11:22 12/12
Time On Bottom: 06:05 12/12 Time Off Bottom: 09:05 12/12

Mud Properties

Mud Type: Chem. **Weight:** 9.4 **Viscosity:** 53 **Filtrate:** 10.4 **Chlorides:** 2500 ppm

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-884-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

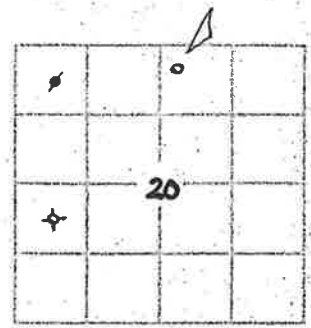
COMPANY L. D. DRILLING, INC.
 WELLS I-20 SPORT
 FIELD WILDCAT
 LOCATION 422' FNL & 2363 FEL
 SEC 20 TWP 15s R. 29W
 COUNTY GOVE STATE KANSAS
 CONTRACTOR L. D. DRILLING, INC.
 SPUD 12-4-20 COMP 12-13-20
 RTD 4300 LTD 4308
 MUD UP 3403 TYPE MUD CHEMICAL

ELEVATIONS
 KB 2497
 DF _____
 UL 2492
 Measurements Are All
 From 2497 KB

CASING
 SURFACE 8 5/8" @ 262'
 PRODUCTION 5 1/2" @
 ELECTRICAL SURVEYS
 DUAL IND., DENS-N.
 MICRO

SAMPLES SAVED FROM 3200 TO 4300
 DRILLING TIME KEPT FROM 3100 TO 4300
 SAMPLES EXAMINED FROM 3200 TO 4300
 GEOLOGICAL SUPERVISION FROM 3600 TO 4300
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	1909 + 588	1909 + 588
B/ANN	1940 + 557	1940 + 557
STOTLER	3182 - 685	3180 - 683
HEEBNER	3554 - 1057	3552 - 1055
LANSING	3592 - 1095	3589 - 1092
STARK	3844 - 1347	3841 - 1344
PAWNEE	4038 - 1541	4038 - 1541
FORT SCOT	4097 - 1660	4093 - 1596
CHEROKEE	4122 - 1625	4120 - 1623
MISSISSIPPI	4192 - 1695	4194 - 1697
MISS. SPERGEN	4240 - 1743	4234 - 1737



API: 15-063-22379

REMARKS

12-4-20 SPUD
 12-5 @ 320'
 12-6 @ 1785'
 12-7 @ 2620'
 12-8 @ 3195'
 12-9 @ 3650'
 12-10 @ 3845'
 12-11 @ 4060'
 12-12 @ 4180'
 12-13 @ 4300'

LEGEND

- Dolomite
- Chert
- Unstable Gellime
- cut in Unstable Gellime
- shale
- Sandstone
- Salt
- Anhydrite



DEPTH
1850

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

ANHYDRITE 1909 + 588

B/ANN 1940 + 557

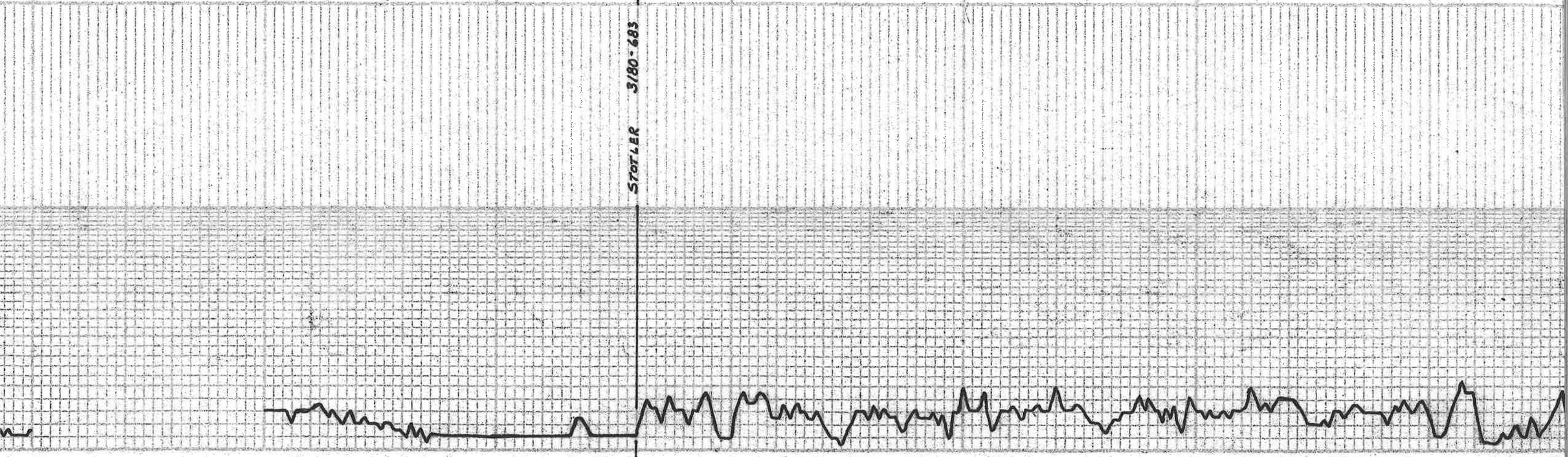
1960

3100

3200

3300

STOTLER 3180-683



Samples are lagged

Displaced @ 3403

3400

LS. wt. to Foss. Calcitic

LS. Trwt. Sh. Foss.

Sh. L. G. G.

LS. Trwt. ool.

Sh. L. G.

LS. Tr. Foss. Calcitic

LS. wt. Foss. Si. Chilly.

LS. Trwt. ool. Foss. vs. Chilly.

LS. Bu. Foss. Si. Foss. Chilly.

HEGNER 3552-1055
Sh. Blue G. G.

Sh. L. Blue G.

LS. wt. vs. Foss. Si. A

Sh. L. G. Rd
LANSING 3589-1092
LS. Trwt. ool.

LS. Trwt. vs. Foss. Si. A

Sh. Rd

LS. wt. Si. Foss. Si. Chilly.

LS. wt. ool. Si. ool.

LS. wt. Si. Foss. Si. Chilly.

LS. wt. Chilly

Sh. Blue G. G.

LS. Bu. vs. Foss. Si. A

Sh. L. G. Rd

LS. Tr. Si. Foss.

TORONTO

3600

WLS: 64 WTI: 8.8
WLS: 80 CUL: 1500

3700

3700

3800

3900

4000

LS. Th. Silty Foss.
 LS. wt. Th. ool. Silty ool.
 LS. wt. chllg.
 LS. Ltg. VSI, A

MUNCIE CREEK 3752-1255

Sh. Blue Clay
 LS. R. VSI, Foss
 LS. Th. Ltg. VSI, Foss, Silty, ch. L. P. V. Silty
 LS. R. Silty, Th. Foss. Dull. Floor - No. ool.
 Sh. G. L.
 Ltg. wt. LS. wt. Ltg. Silty Foss Silty A
 Silty DEh
 LS. R. DEh. Silty Foss.
 Silty Ltg.
 LS. wt. Silty Foss Silty chllg.
 LS. wt. Silty ool. Foss.
 LS. Th. Ltg. Silty Foss.
 LS. Th. Ltg. Silty A

STARK 3841-1344

Sh. Blue Clay
 LS. DEh. VSI Foss.
 Silty Ltg.
 LS. Th. R. Foss. Silty Foss. V. Silty, P. V. Silty
 LS. R. Silty, Th. Foss. V. Silty, P. V. Silty
 LS. Th. Ltg. Silty Foss. ool. Silty A
 Silty DEh
 LS. R. VSI, Foss. Silty A
 LS. Silty Ltg. Silty Foss.
 L. wt.

B/KC 3918-1421

LS. Th. Ltg. VSI, Foss. Silty A
 Sh. L. Blue Silty - Silty

MARMATON 3943-1446

LS. Th. VSI, Foss.
 Silty. Pink Ltg. ch. L.
 LS. Ltg. silty
 LS. wt. chllg.

LS. wt. VSI, Foss. w/ Blue T. ool. Silty

LS. Th. Silty Foss. ool. Silty A

LS. Th. Silty Foss. Silty A

Sh. Blue

DST (1)



VIS: 58 WIT: 90
 NILL: 8.8 DIL: 2000

HUSHPICKNEY

DST (1) 3839-3865

15000N: Blow built to 1" (closed)
 15000N: Blow built to 1" (open)
 15000N: Surface Blow

30-30-30-30

Rec. 1' Mud

Tool Sample
 100% Mud

Fp: 31.33 33.33"
 SIP: 70.38"

Temp: 115°



DST (2) 4029-4060

15000N: Bottom bucket 4 min 34 sec.
 15000N: " " " 15"
 15000N: " " " 45-60"

Rec. 1090 G.L.R

73' 560 (10/6 10/2018)
 63' 1600 (20/6 10/2018)
 63' 1600 (20/6 10/2018)

Tool Sample
 100% Mud
 100% Mud
 100% Mud

Fp: 199'
 SIP: 28651 60-91'
 Temp: 129°

DST (2)

LITHOLOGY	DEPTH	DRILLING TIME MINUTES/FOOT	5" 10" 15" 20" 25" <small>Scale of Penetration Resistance</small>	SAMPLE DESCRIPTIONS	REMARKS

COMPANY L. D. DRILLING, INC.
 LEASE # 1-20 Sport
 LOCATION 422 FWL 1 2363 FELCO 20 TWP 15 RGE 29 W
 COUNTY GOVE STATE KANSAS
 ELEVATION 2497 KB



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

L D DRILLING, INC.
7 SW 26TH AVE
GREAT BEND, KS 67530

Invoice Date: 12/13/2020
Invoice #: 0350809
Lease Name: Sport
Well #: 1-20 (New)
County: Gove, Ks
Job Number: WP1022
District: Pratt

Date/Description	HRS/QTY	Rate	Total
5 1/2" 2 Stage	0.000	0.000	0.00
H-LD Cement Blend	150.000	37.153	5,572.88
H-CON	275.000	16.170	4,446.75
H-Plug	30.000	10.010	300.30
Cello Flake	70.000	1.348	94.33
5 1/2" Floatshoe-Flapper AFU	1.000	288.750	288.75
5 1/2" 2 Stage DV Tool	1.000	3,850.000	3,850.00
Cement baskets 5 1/2"	3.000	231.000	693.00
5 1/2" Turbolizers	7.000	61.599	431.19
Mud flush	1,000.000	0.770	770.00
Light Eq Mileage	55.000	1.540	84.70
Heavy Eq Mileage	55.000	3.080	169.40
Ton Mileage	1,172.000	1.155	1,353.66
Cement Pump Service	1.000	1,925.000	1,925.00
Cement Plug Container	1.000	192.500	192.50

Total 20,172.46

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

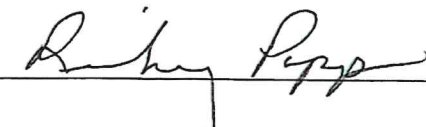
WE APPRECIATE YOUR BUSINESS!

Hurricane Services, Inc.
 250 N. Water St., Suite #200
 Wichita, KS 67202



Customer	LD DRILLING COMPANY		Lease & Well #	SPORT 1-20		Date	12/13/2020		
Service District	PRATT		County & State	GOVE KS		Legals S/T/R	20-15S-29W		
Job Type	5 1/2 2 STAGE	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> No	Ticket #	
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures							
912	MATTAL	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging				
526/521	MCGRAW	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection				
181/532	MCGRAW	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations				
194/254	ANDERSON	<input checked="" 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									
Product/ Service Code									
		Description		Unit of Measure	Quantity			Net Amount	
CP014	H-LD Cement Blend		sack	150.00				\$5,572.88	
CP025	H-Con		sack	275.00				\$4,446.75	
CP055	H-Plug		sack	30.00				\$300.30	
CP120	Cello-flake		lb	70.00				\$94.33	
FE145	5 1/2" Float Shoe - AFU Flapper Type		ea	1.00				\$288.75	
FE150	5 1/2" DV Tool - 2 Stage		ea	1.00				\$3,850.00	
FE130	5 1/2" Cement Basket		ea	3.00				\$693.00	
FE135	5 1/2 Turbolizer		ea	7.00				\$431.20	
CP170	Mud Flush		gal	1,000.00				\$770.00	
M015	Light Equipment Mileage		mi	55.00				\$84.70	
M010	Heavy Equipment Mileage		mi	55.00				\$169.40	
M020	Ton Mileage		tn	1,172.00				\$1,353.66	
C020	Cement Pump - Multi Stage Service		ea	1.00				\$1,925.00	
C050	Cement Plug Container		job	1.00				\$192.50	
Customer Section: On the following scale how would you rate Hurricane Services Inc.?									
						Net:	\$20,172.46		
						Total Taxable	\$ -	Tax Rate:	
Based on this job, how likely is it you would recommend HSI to a colleague?						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.		Sale Tax:	\$ -
<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"/>								Total:	\$ 20,172.46
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely								HSI Representative: <i>Mike Mattal</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 1/2% 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 COMPANY	Well:	SPORT 1-20	Ticket:	WP1022
City, State:	DIGHTON KS	County:	GOVE KS	Date:	12/13/2020
Field Rep:	RICK POPP	S-T-R:	20-15S-29W	Service:	5 1/2 2 STAGE

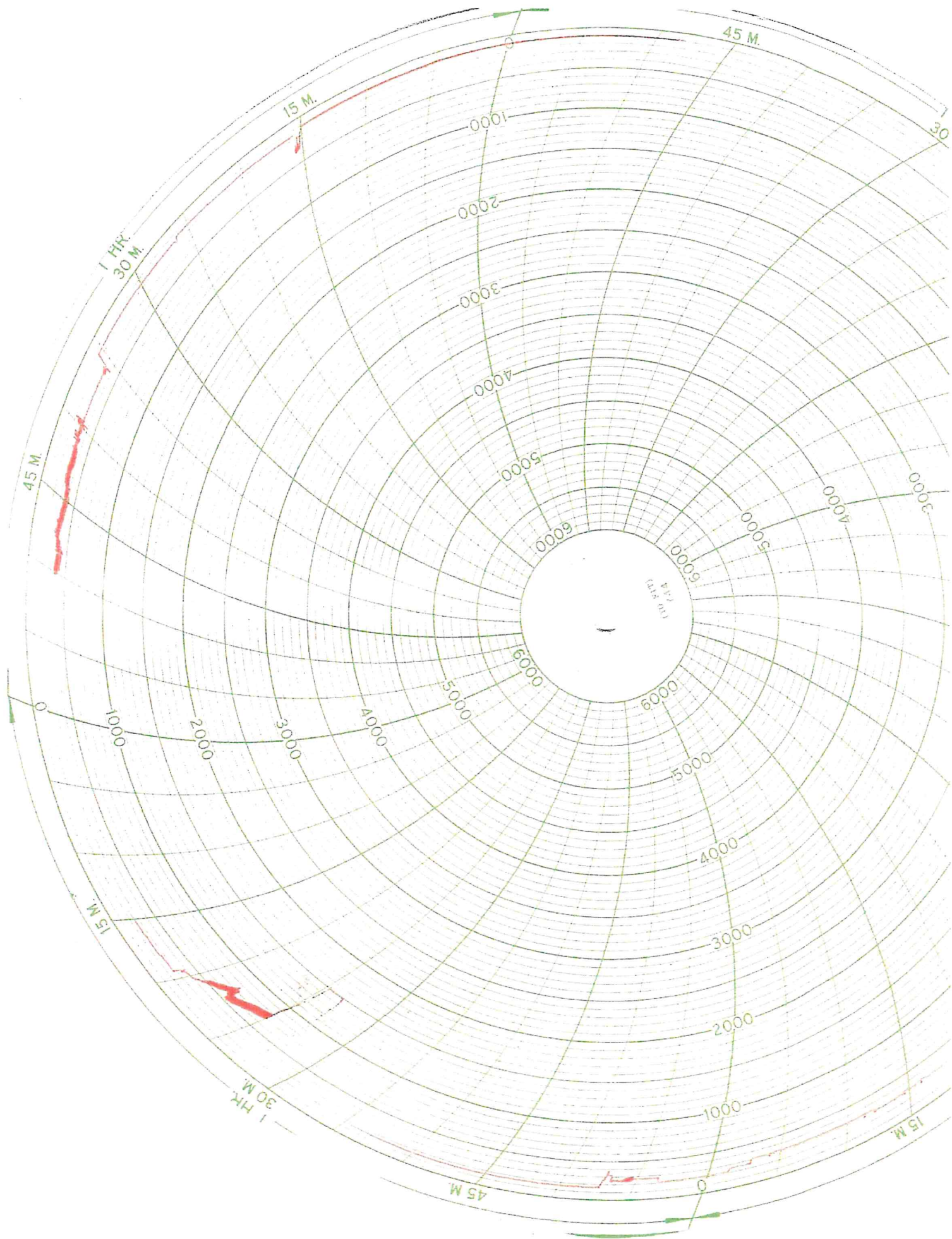
Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4300 ft
Casing Size:	5 1/2 in
Casing Depth:	4292 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	D.V.
Tool Depth:	1930 ft
Displacement:	101.3 bbls

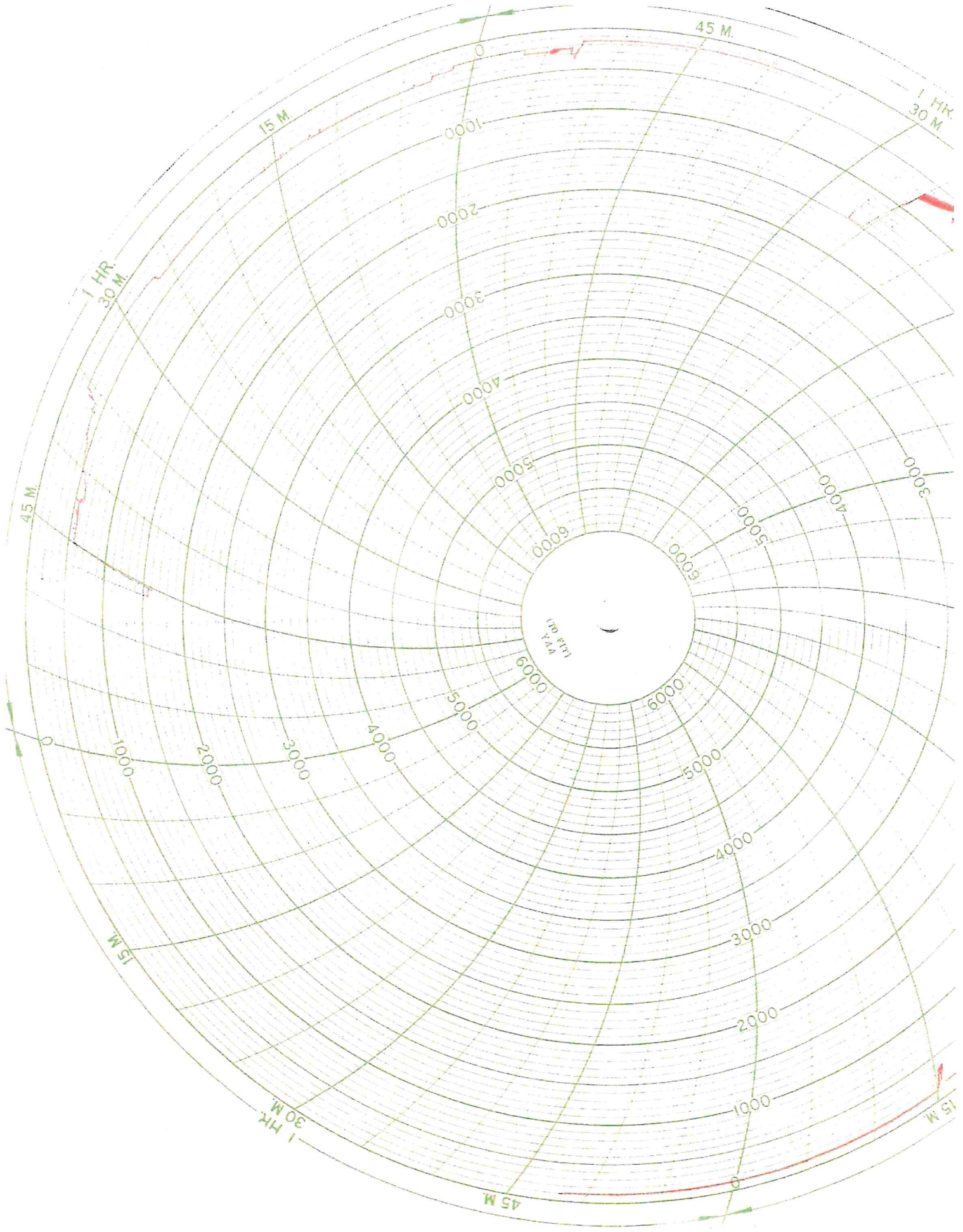
Calculated Slurry - Lead	
Blend:	H-LD CEMENT
Weight:	15.0 ppg
Water / Sx:	6.2 gal / sx
Yield:	1.49 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	150 sx

Calculated Slurry - Tail	
Blend:	H-CON
Weight:	11.6 ppg
Water / Sx:	16.8 gal / sx
Yield:	2.77 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	275 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
12:45 PM			-	-	ON LOCATION, SAFTEY MEETING
3:00 PM			-	-	RUN 5.5" 15.5 LBS CASING, AUTOFILL FLOAT SHOE, LATCH DOWN IN 35.47' SHOE JOINT, BASKETS ON PIN OF 5,47,48
			-	-	TURBOLIZERS ON 1,3,4,6,7,8, 49 DV TOOL ON 48 AT 1930'
4:51 PM			-	-	CASING ON BOTTOM
5:05 PM			-	-	HOOK TO CASING, BREAK CIRC WITH RIG
6:08 PM	4.5	200.0	24.0	24.0	PUMP 1000 GALLONS MUDFLUSH
6:13 PM	4.5	200.0	5.0	29.0	PUMP 5 BBL WATER
6:20 PM	3.0	50.0	7.0	36.0	MIX 30 SKS H-PLUG FOR RAT HOLE
6:22 PM	5.0	200.0	40.0	76.0	MIX 150 SKS H-LD CEMENT BLEND
6:40 PM	3.0	50.0	5.0	81.0	WASH PUMP AND LINE, DROP PLUG
6:45 PM	5.3	175.0	55.0	136.0	START WATER DISPLACEMENT
6:59 PM	3.3	150.0		136.0	START MUD DISPLACEMENT
7:02 PM	5.0	300.0	80.0	216.0	LIFT PRESSURE
7:05 PM	3.0	450.0	90.0	306.0	SLOW RATE
7:08 PM		1,500.0	101.0	407.0	PLUG DOWN, RELEASED AND HELD
7:15 PM				407.0	DROP OPENING TOOL
7:35 PM		800.0		407.0	OPEN DV TOOL
7:43 PM	5.0	200.0	136.0	543.0	MIX 275 SKS H-CON
8:11 PM	3.0	50.0	5.0	548.0	WASH PUMP AND LINE, DROP PLUG
8:18 PM	5.5	400.0		548.0	START DISPLACEMENT
8:23 PM			30.0	578.0	CEMENT TO SURFACE
8:25 PM	3.0	450.0	35.0	613.0	SLOW RATE
8:28 PM		1,500.0		613.0	PLUG DOWN, RELEASED AND HELD
					CIRCULATION THRU JOB
					JOB COMPLETE, THANK YOU!
					MIKE MATTAL
					MIKE, EJ, & ALLEN

CREW		UNIT	SUMMARY		
Cementer:	MATTAL	912	Average Rate	Average Pressure	Total Fluid
Pump Operator:	MCGRAW	526/521	4.1 bpm	417 psi	613 bbls
Bulk #1:	MCGRAW	181/532			
Bulk #2:	ANDERSON	194/254			





Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202



Customer: LD DRILLING, Lease & Well #: SPORT 1-20, Date: 12/5/2020
Service District: PRATT, KS, County & State: GOVE, KS, Legals SFR: 20-16S-28W, Job #:
Job Type: 8 & 8 SURFACE, PROD, INJ, SWD, New Well? YES, No, Ticket #: ICT 4471

Table with columns: Equipment #, Driver, Job Safety Analysis - A Discussion of Hazards & Safety Procedures. Includes items like Hard hat, Gloves, Lockout/Tagout, etc.

Comments section for customer input.

Table with columns: Product/Service Code, Description, Unit of Measure, Quantity, Net Amount. Lists items like Pozmix, Calcium Chloride, Mileage, and Cement Pump Service.

Customer Satisfaction and Likelihood to Recommend section. Includes a scale from 1 to 10 and summary of Net Taxable amount.

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.

Handwritten signature and 'CUSTOMER AUTHORIZATION SIGNATURE' text.



CEMENT TREATMENT REPORT

Customer: LD DRILLING	Well: SPORT 1-20	Ticket: ICT 4471
City, State:	County: GOVE, KS	Date: 12/5/2020
Field Rep:	S-T-R: 20-15S-29W	Service: 8 5/8 SURFACE

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	265 ft
Casing Size:	8 5/8 in 23#
Casing Depth:	254.9 ft
Tubing / Liner:	in
Plug Depth:	234 ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	15.0 bbls

Calculated Slurry - Lead	
Blend:	60/40 POZ
Weight:	14.8 ppg
Water / Sx:	5.2 gal / sx
Yield:	1.21 ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	54.0 bbls
Total Sacks:	250 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
7:00PM			-	-	ON LOCATION- SPOT EQUIPMENT
8:15PM			-	-	RIG UP
7:45PM			-	-	RUN 6 JTS 8 5/8" X23# CASING
8:55PM			-	-	CASING ON BOTTOM
9:00PM			-	-	HOOK UP TO CASING AND BREAK CIRCULATION WITH RIG PUMP
9:15PM	5.0	250.0	10.0	10.0	H2o AHEAD
9:20PM	5.0	100.0	54.0	64.0	MIX 250 SKS 60/40 POZ @ 14.8 PPG
9:32PM	5.0	50.0	-	64.0	START DISPLACEMENT
9:34PM	3.0	100.0	12.0	76.0	SLOW RATE
9:35PM	3.0	200.0	15.0	91.0	CEMENT @ DESIRED DEPTH
				91.0	CIRCULATION THRU JOB
				91.0	CIRCULATED 10 BBL TO FIT
				91.0	WASH UP PUMP TRUCK
				91.0	
				91.0	JOB COMPLETE,
				91.0	THANKS- KEVEN AND CREW
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CREW	UNIT	SUMMARY		
		Average Rate	Average Pressure	Total Fluid
Cement: LESLEY	916	4.2 bpm	140 psi	91 bbls
Pump Operator: OSBORN	179-522			
Bulk #1: WHITFIELD	181-532			
Bulk #2:				