KOLAR Document ID: 1586763

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 #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City:	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD ☐ Gas ☐ DH ☐ EOR	Elevation: Ground: Kelly Bushing:
	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content:ppm Fluid volume:bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
	Quarter Sec TwpS. R
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	Countv: 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:				

KOLAR Document ID: 1586763

Page Two

Operator Name: _				Lease Name:			Well #:	
Sec Twp.	S. R.	E	ast West	County:				
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No					
		B	CASING eport all strings set-c		New Used	ion, etc.		
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD			
Purpose:		epth T Bottom	ype of Cement	# Sacks Used		Type and F	Percent Additives	
Perforate Protect Casi Plug Back T								
Plug Off Zor								
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)		
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT
,	,			B.11 B1				
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:				
TODING RECORD:	. 3126.	Set	n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	SPEER 1-28
Doc ID	1586763

Tops

Name	Тор	Datum
ANHYDRITE	2117	+669
BASE ANHYDRITE	2146	+640
STOTLER	3562	-776
HEEBNER	3986	-1200
LANSING	4028	-1242
STARK	4308	-1522
PLEASANTON	4400	-1614
FORT SCOTT	4568	-1782
CHEROKEE	4589	-1803
MISSISSIPPI	4667	-1881

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	SPEER 1-28
Doc ID	1586763

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	236	H-235	200	NA



Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

Operation:
Uploading recovery & pressures

DATE

July **15**

2021

DST #1

Formation: LKC

Test Interval: 4265 -

Total Depth: 4287'

4287'

Time On: 20:44 07/15 Time Off: 04:34 07/16

Time On Bottom: 23:13 07/15 Time Off Bottom: 02:13 07/16

Electronic Volume Estimate:

413'

1st Open Minutes: 30 Current Reading:

17.1" at 30 min

Max Reading: 17.1"

1st Close Minutes: 45 Current Reading:

0" at 45 min

Max Reading: 0"

2nd Open Minutes: 45 Current Reading:

19.5" at 45 min

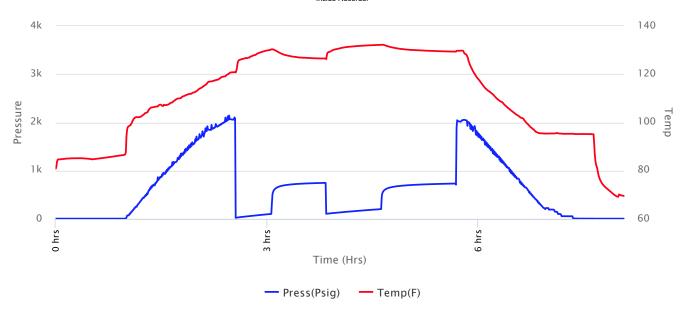
Max Reading: 19.5"

2nd Close Minutes: 60 Current Reading:

0" at 60 min

Max Reading: 0"







Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

Operation:
Uploading recovery &
pressures

DATE	
July	
15	
2021	

DST #1	Formation: LKC	Test Interval: 4265 -	Total Depth: 4287'
		/287'	-

Time On: 20:44 07/15 Time Off: 04:34 07/16

Time On Bottom: 23:13 07/15 Time Off Bottom: 02:13 07/16

Recovered

<u>Foot</u>	<u>BBLS</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
1	0.01026	0	0	100	0	0
88	0.90288	HMCW (trace O)	0	.1	64.9	35
126	1.29276	MCW	0	0	78	22
126	1.29276	SLMCW	0	0	95	5
63	0.64638	MCW	0	0	75	25

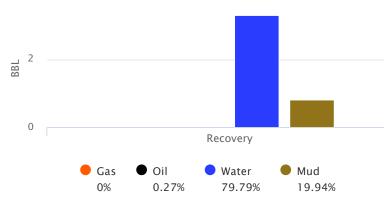
Total Recovered: 404 ft

Total Barrels Recovered: 4.14504

Reversed Out
NO

Initial Hydrostatic Pressure	2081	PSI
Initial Flow	30 to 98	PSI
Initial Closed in Pressure	748	PSI
Final Flow Pressure	109 to 203	PSI
Final Closed in Pressure	734	PSI
Final Hydrostatic Pressure	2018	PSI
Temperature	133	°F
Pressure Change Initial	1.9	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 0



Lease: Speer #1-28

Operation:
Uploading recovery &
pressures

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

DATE
July
15
2021

DST #1 Formation: LKC Test Interval: 4265 - Total Depth: 4287'

4287'

Time On: 20:44 07/15 Time Off: 04:34 07/16

Time On Bottom: 23:13 07/15 Time Off Bottom: 02:13 07/16

BUCKET MEASUREMENT:

1st Open: BoB in 15 minutes 47 seconds. 1st Close: No Return Blow over 45 minutes. 2nd Open: BoB in 23 minutes 14 seconds. 2nd Close: No Return Blow over 60 min.

REMARKS:

Tool Sample: 0% Gas .1% Oil 71.9% Water 28% Mud

Ph: 7

Measured RW: .19 @ 68 degrees °F

RW at Formation Temp: 0.102 @ 133 °F

Chlorides: 31000 ppm



Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

Operation:
Uploading recovery & pressures

<u>DATE</u>

July **15** 2021 DST #1 Formation: LKC

Test Interval: 4265 -

Total Depth: 4287'

4287'

Time On: 20:44 07/15 Ti

Time Off: 04:34 07/16

Time On Bottom: 23:13 07/15 Time Off Bottom: 02:13 07/16

Down Hole Makeup

Heads Up: 21.2 FT

Packer 1: 4260 FT

Drill Pipe: 4253.63 FT

Packer 2: 4265 FT

ID-3 1/4

Top Recorder: 4249.42 FT

Weight Pipe: 0 FT

Bottom Recorder: 4285 FT

ID-2 7/8

Collars: 0 FT

Well Bore Size: 7 7/8

ID-2 1/4

Surface Choke: 1"

Test Tool: 33.57 FT

Bottom Choke: 5/8"

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 22

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 18 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/4

Change Over: 0 FT

Perforations: (below): 3 FT

4 1/2-FH



Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

Operation:
Uploading recovery &
pressures

July

15

2021

DATE DST #1

Formation: LKC

Test Interval: 4265 -

Total Depth: 4287'

4287'

Time On: 20:44 07/15

Time Off: 04:34 07/16

Time On Bottom: 23:13 07/15 Time Off Bottom: 02:13 07/16

Mud Properties

Mud Type: Chem. Weight: 9.2 Viscosity: 56 Filtrate: 7.2 Chlorides: 2000 ppm



Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

Operation:
Uploading recovery &
pressures

DATE
July
15
2021

DST #1 Formation: LKC Test Interval: 4265 - Total Depth: 4287'

4287'

Time On: 20:44 07/15 Time Off: 04:34 07/16

Time On Bottom: 23:13 07/15 Time Off Bottom: 02:13 07/16

Gas Volume Report

1st Open						
Time	Orifice	PSI	MCF/D		Time	

2nd Open						
Time	Orifice	PSI	MCF/D			



Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

Operation:
Uploading recovery & pressures

July

16 2021

DST #2 Formation: LKC "200' zone"

Test Interval: 4299 -

Total Depth: 4321'

4321'

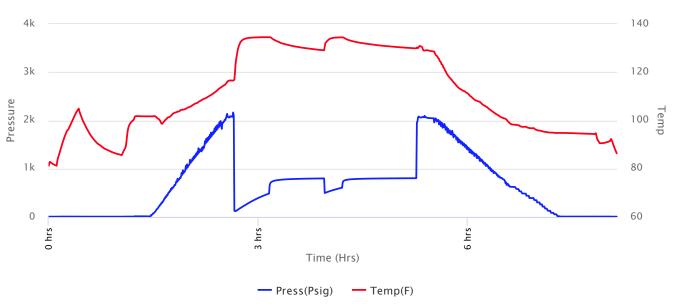
Time On: 12:09 07/16 Time Off: 20:04 07/16

Time On Bottom: 14:43 07/16 Time Off Bottom: 17:13 07/16

Electronic Volume Estimate: 1585' 1st Open Minutes: 30 Current Reading: 113.4" at 30 min Max Reading: 113.4" 1st Close Minutes: 45 Current Reading: 0" at 45 min Max Reading: 0"

2nd Open Minutes: 15 Current Reading: 32.5" at 15 min Max Reading: 32.5" 2nd Close Minutes: 60 Current Reading: 0" at 60 min Max Reading: 0"

Inside Recorder





Operation:

Uploading recovery &

pressures

Company: L. D. Drilling, Inc

Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W County: LANE

State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

DATE July 16 2021

Total Depth: 4321' DST #2 Formation: LKC Test Interval: 4299 -"200' zone" 4321'

> Time On: 12:09 07/16 Time Off: 20:04 07/16

Time On Bottom: 14:43 07/16 Time Off Bottom: 17:13 07/16

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	Gas %	<u>Oil %</u>	Water %	Mud %
1	0.01026	0	0	100	0	0
176	1.80576	SLOCHMCW	0	10	55	35
189	1.93914	SLOCSLMCW	0	1	86	13
189	1.93914	SLOCSLMCW	0	3	92	5
189	1.93914	SLOCSLMCW	0	1	97	2
189	1.93914	SLMCW (trace O)	0	.1	98.9	1
436	4.47336	SLMCW	0	0	99	1
5	0.0513	SLWCSLOCM	0	10	3	87

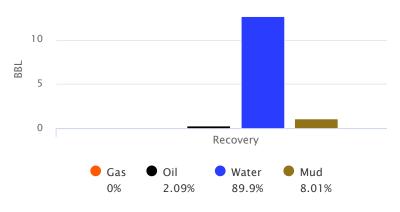
Total Recovered: 1374 ft

Total Barrels Recovered: 14.09724

Reversed Out
NO

Initial Hydrostatic Pressure	2077	PSI
Initial Flow	129 to 458	PSI
Initial Closed in Pressure	798	PSI
Final Flow Pressure	496 to 601	PSI
Final Closed in Pressure	803	PSI
Final Hydrostatic Pressure	2081	PSI
Temperature	135	°F
Pressure Change Initial	0.0	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 0



Operation:

Uploading recovery &

pressures

Company: L. D. Drilling, Inc

Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

DATE July 16

DST #2 Formation: LKC "200' zone"

Test Interval: 4299 -

Total Depth: 4321'

4321'

Time On: 12:09 07/16 Time Off: 20:04 07/16

Time On Bottom: 14:43 07/16 Time Off Bottom: 17:13 07/16

BUCKET MEASUREMENT:

2021

1st Open: B.o.B. in 1 minute 27 seconds. 1st Close: No Return Blow over 45 minutes. 2nd Open: B.o.B. in 3 minutes 39 seconds. 2nd Close: No Return Blow over 60 min.

REMARKS:

Tool Sample: 0% Gas 5% Oil 90% Water 5% Mud

Ph: 7

Measured RW: .13 @ 90 degrees °F

RW at Formation Temp: 0.089 @ 135 °F

Chlorides: 46000 ppm



Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

Operation:
Uploading recovery & pressures

<u>DATE</u>

July **16**

2021

DST #2 Formation: LKC "200' zone"

Test Interval: 4299 -

Total Depth: 4321'

4321'

Time On: 12:09 07/16 Time Off: 20:04 07/16

Time On Bottom: 14:43 07/16 Time Off Bottom: 17:13 07/16

Down Hole Makeup

Heads Up: 18.72 FT **Packer 1:** 4294 FT

Drill Pipe: 4285.15 FT **Packer 2**: 4299 FT

ID-3 1/4 Top Recorder: 4283.42 FT

Weight Pipe: 0 FT

ID-2 7/8 Bottom Recorder: 4319 FT

Collars: 0 FT Well Bore Size: 7 7/8

ID-2 1/4 Surface Choke: 1"

Test Tool: 33.57 FT Bottom Choke: 5/8"

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 22

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 18 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/4

Change Over: 0 FT

Perforations: (below): 3 FT

4 1/2-FH



Operation:

Company: L. D. Drilling, Inc

Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

Uploading recovery & pressures

DATE

July

16

2021

DST #2

Formation: LKC "200' zone"

Test Interval: 4299 -

Total Depth: 4321'

4321'

Time On: 12:09 07/16 Time Off: 20:04 07/16

Time On Bottom: 14:43 07/16 Time Off Bottom: 17:13 07/16

Mud Properties

Mud Type: Chem. Weight: 9.2 Viscosity: 49 Filtrate: 8.0 Chlorides: 3000 ppm



Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

Operation:
Uploading recovery &
pressures

16

2021

DATE July Formation: LKC "200' zone"

Test Interval: 4299 -

Total Depth: 4321'

4321'

Time On: 12:09 07/16

432 i

Time Off: 20:04 07/16

Time On Bottom: 14:43 07/16 Time Off Bottom: 17:13 07/16

Gas Volume Report

1st Open					
Time Orifice PSI MCF					

2nd Open						
Time	Orifice	PSI	MCF/D			



Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

Operation:
Uploading recovery &
pressures

DATE

July **17**

2021

DST #3

Formation: Pleasanton

Test Interval: 4395 -

Total Depth: 4410'

4410'

Time On: 10:38 07/17

Time Off: 18:47 07/17

Time On Bottom: 13:45 07/17 Time Off Bottom: 16:45 07/17

Electronic Volume Estimate:

24'

1st Open Minutes: 30 Current Reading:

1.6" at 30 min

Max Reading: 1.6"

1st Close Minutes: 45 Current Reading:

0" at 45 min

Max Reading: 0"

2nd Open Minutes: 45 Current Reading:

.4" at 45 min

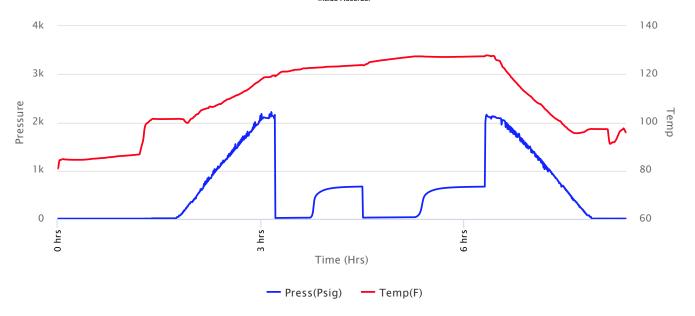
Max Reading: .4"

<u>2nd Close</u> Minutes: 60 Current Reading:

0" at 60 min

Max Reading: 0"







Lease: Speer #1-28

Operation:
Uploading recovery &
pressures

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

DATEJuly **17**2021

DST #3 Formation: Test Interval: 4395 - Total Depth: 4410'
Pleasanton 4410'

Time On: 10:38 07/17 Time Off: 18:47 07/17

Time On Bottom: 13:45 07/17 Time Off Bottom: 16:45 07/17

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	Mud %
10	0.1026	SLOCHMCW	0	1	69	30
5	0.0513	M	0	0	0	100

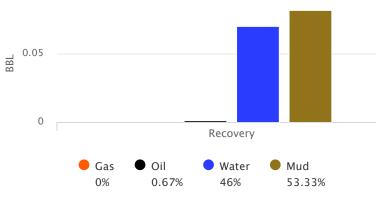
Total Recovered: 15 ft

Total Barrels Recovered: 0.1539

Reversed Out
NO

Initial Hydrostatic Pressure	2082	PSI
Initial Flow	21 to 26	PSI
Initial Closed in Pressure	671	PSI
Final Flow Pressure	28 to 36	PSI
Final Closed in Pressure	670	PSI
Final Hydrostatic Pressure	2077	PSI
Temperature	128	°F
Pressure Change Initial	0.2	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 0



Lease: Speer #1-28

Operation:
Uploading recovery & pressures

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

DATE
July
17
2021

DST #3 Formation: Test Interval: 4395 - Total Depth: 4410'

Time On: 10:38 07/17 Time Off: 18:47 07/17

Time On Bottom: 13:45 07/17 Time Off Bottom: 16:45 07/17

BUCKET MEASUREMENT:

1st Open: Weak Surface Blow built to 1 1/2" Over 30 min.

1st Close: No Return Blow over 45 minutes.

2nd Open: Weak Surface Blow started at 9 minutes 17 seconds. Built to 1/2" over 45 minutes.

2nd Close: No Return Blow over 60 min.

REMARKS:

Tool Sample: 0% Gas .1% Oil 79.9% Water 20% Mud

Ph: 7

Measured RW: .11 @ 94 degrees °F

RW at Formation Temp: 0.082 @ 128 °F

Chlorides: 32000 ppm



Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

Operation: Uploading recovery & pressures

DATE

July 17

2021

DST #3

Formation: Pleasanton Test Interval: 4395 -

Total Depth: 4410'

4410'

Time On: 10:38 07/17

Time Off: 18:47 07/17

Time On Bottom: 13:45 07/17 Time Off Bottom: 16:45 07/17

Down Hole Makeup

Heads Up: 16.25 FT Packer 1: 4390 FT

Drill Pipe: 4378.68 FT

ID-3 1/4

Weight Pipe: 0 FT

ID-2 7/8

Collars: 0 FT

ID-2 1/4

Surface Choke:

Test Tool: 33.57 FT

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 15

Anchor Makeup

Packer Sub:

1 FT

11 FT

4 1/2-FH

0 FT

Drill Pipe: (in anchor):

Perforations: (top):

ID-3 1/4

Change Over:

0 FT

Change Over:

4 1/2-FH

0 FT

Perforations: (below):

3 FT

Packer 2: 4395 FT

Top Recorder: 4379.42 FT

Bottom Recorder: 4408 FT

Well Bore Size: 7 7/8

1"

Bottom Choke: 5/8"



Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

Operation:
Uploading recovery &
pressures

DATE

July

17 2021

DST #3 Formation: Pleasanton

Test Interval: 4395 -

Total Depth: 4410'

4410'

Time On: 10:38 07/17 Time Off: 18:47 07/17

Time On Bottom: 13:45 07/17 Time Off Bottom: 16:45 07/17

Mud Properties

Mud Type: Chem. Weight: 9.3 Viscosity: 47 Filtrate: 8.8 Chlorides: 3000 ppm



Formation:

Lease: Speer #1-28

SEC: 28 TWN: 19S RNG: 28W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling &

Total Depth: 4410'

Exploration, LLC - Rig 1 Elevation: 2785 EGL Field Name: Stormont Ext

Pool: Infield Job Number: 488 API #: 15-101-22653

Operation:
Uploading recovery &
pressures

DATE

July **17**

2021

Pleasanton

Time On: 10:38 07/17

Test Interval: 4395 -

4410'

Time Off: 18:47 07/17

Time On Bottom: 13:45 07/17 Time Off Bottom: 16:45 07/17

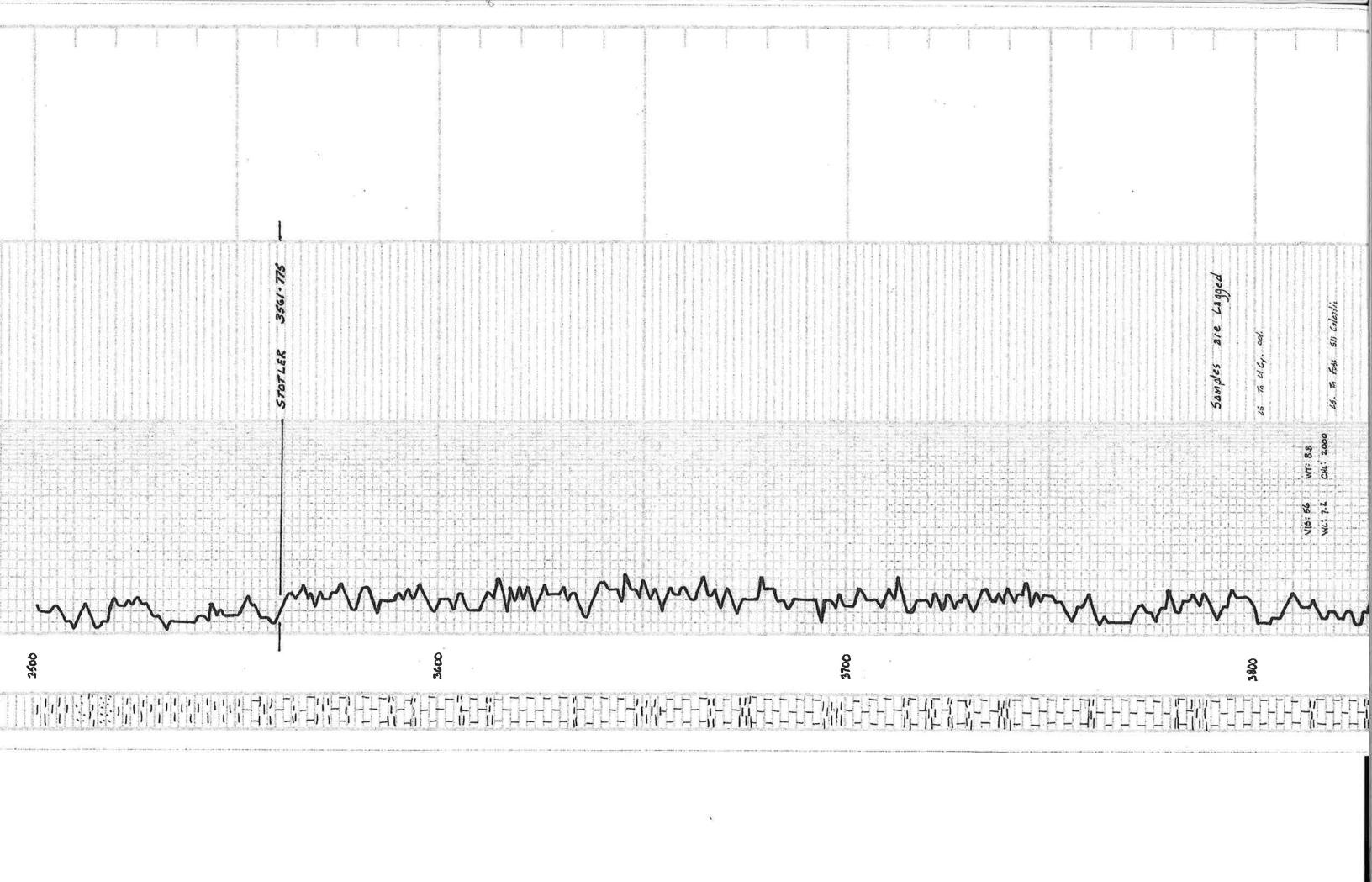
Gas Volume Report

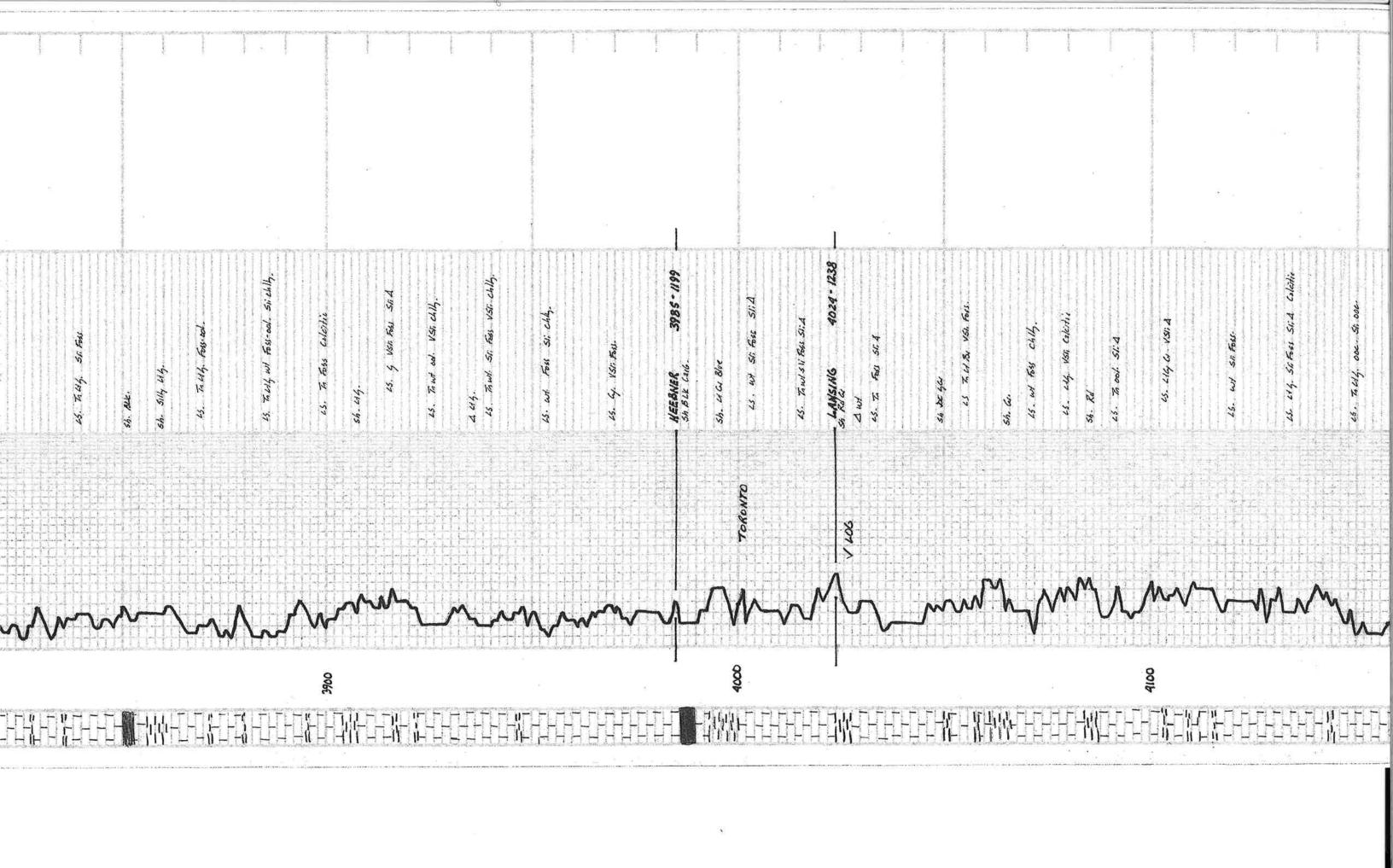
1st Open					
Time Orifice PSI MCF/D					

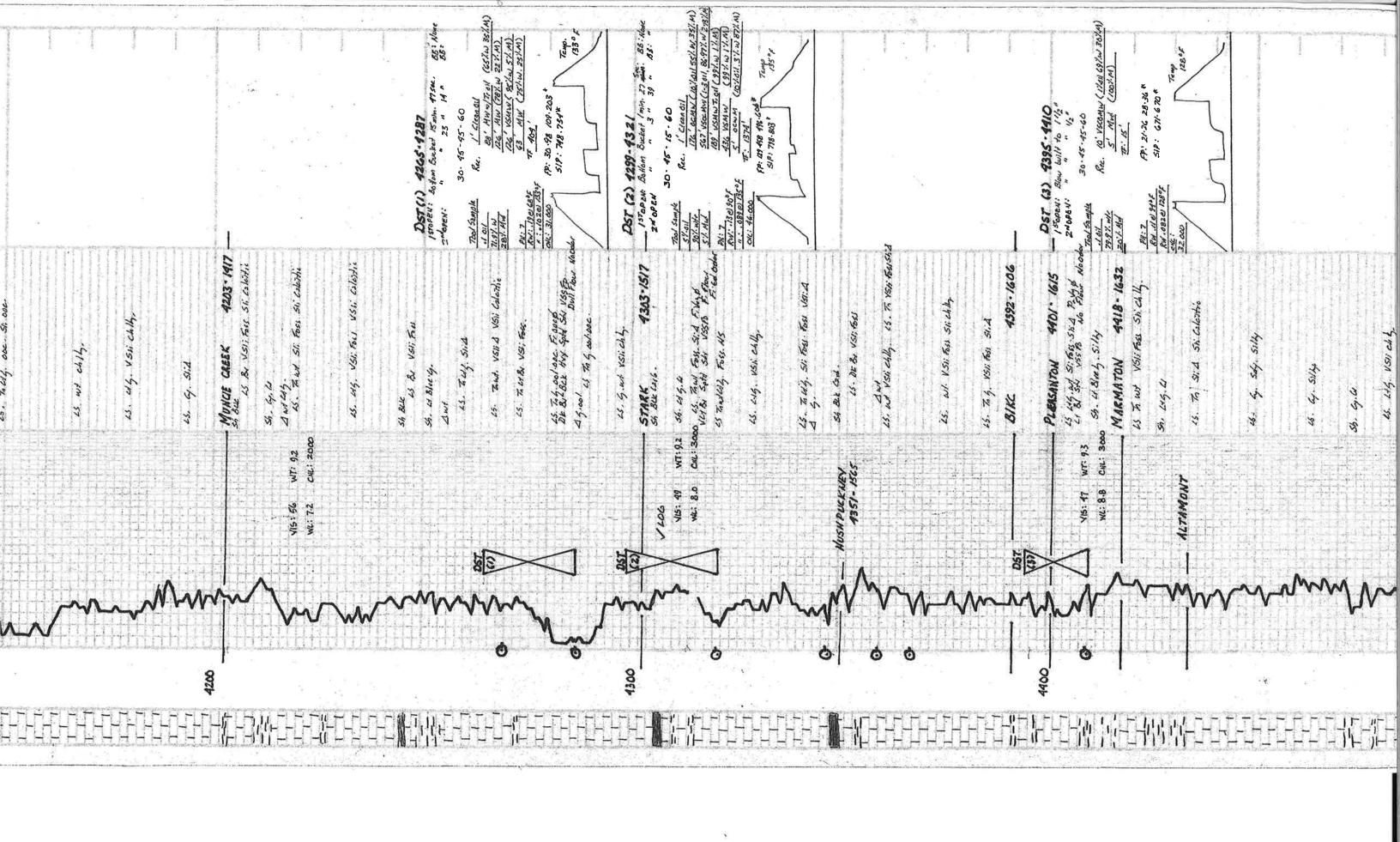
DST #3

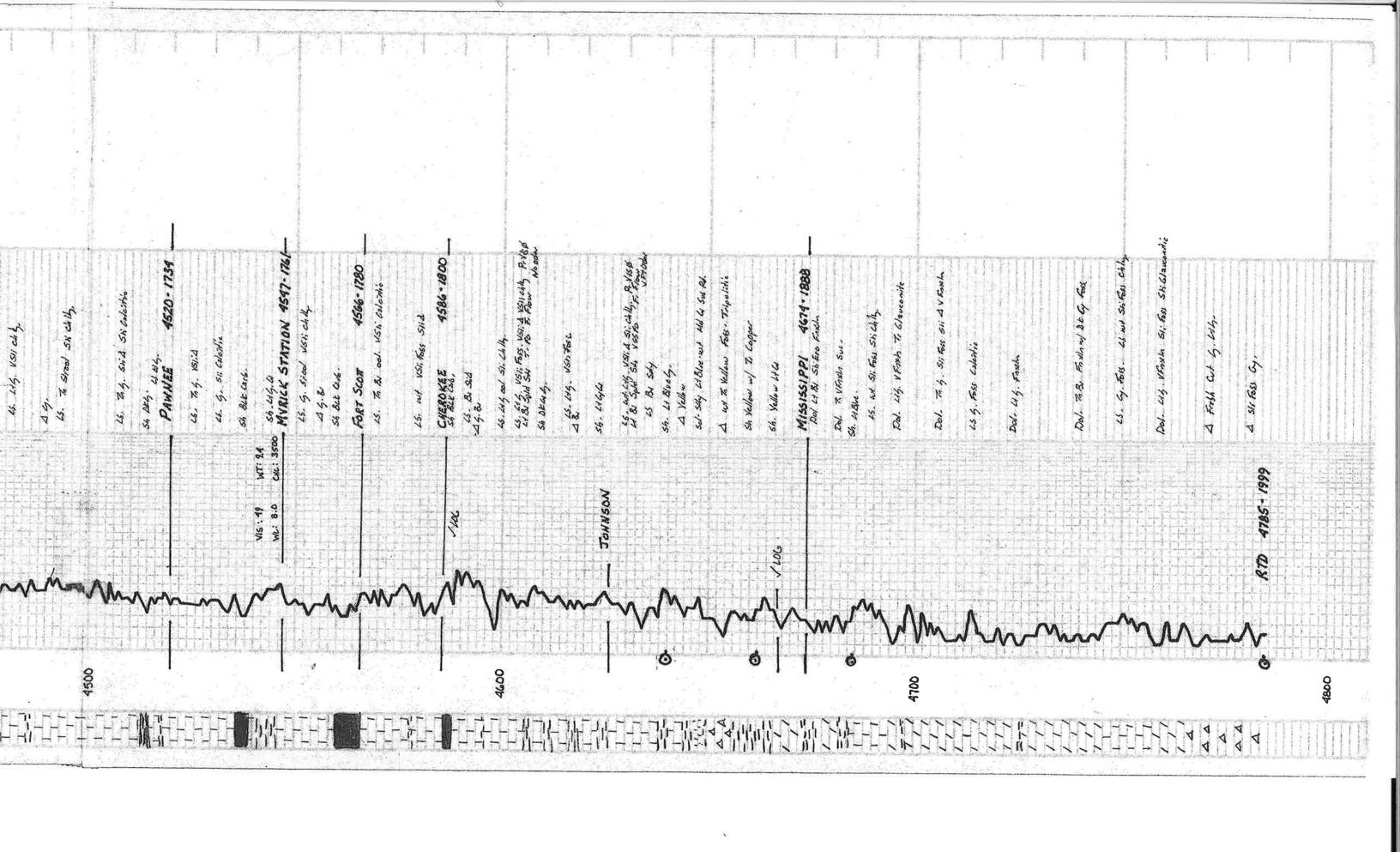
2nd Open						
Time	Orifice	PSI	MCF/D			

GEOL	B. SHONSULTING -684-9709 -OGIST'S	GEOLOGI * WICH S REI	ST ITA,KS PORT		(* 22653.	And the state of t	TO SERVE	*	1		E E	; ;
COMPANY L.D. IFASE I-2: FIELD LOCATION 1794' SEC 28 THIS COUNTY LANE CONTRACTOR L.D. 1 SEUD 7-9-21	DRILLING, INC. S SPEER STORMONT FSL i 477' FE 19'S NATE KAN DRILLING INC- 17' 19' 4787	L 28 W NSAS 21	2786 2781 2786 K 85/640 Dual Ind., Dens-A	B			SALES DESCRIPTIONS	ANKYDRITE 2118+ 668		5 / W.H. Z/146 T 610		
ANHYDRITE B/ANH. STOTLER HEEBNER LANSING STARK PLEASANTON FORT SCOTT CHEROKEE MISSISSIPPI MISS. DOL.	DM	3800 4000	3 4 4		7.9.21 SPUD 7.10 © 238: 7.11 © 1575! 7.12 © 2480: 7.13 © 3337 ' 7.14 © 3737 ' 7.15 © 4185! 7.18 © 4396' 7.19 © 4396' 7.19 © 4396'	DKRLIKS TWE IN MINULE. PER POOL	2100			2150		











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: 7/19/2021
Invoice #: 0354306
Lease Name: Speer
Well #: 1-28
County: Lane, Ks
Job Number: WP1614
District: Oakley

Date/Description	HRS/QTY	Rate	Total
PTA	0.000	0.000	0.00
H-Plug	280.000	11.440	3,203.20
Wooden plug 8 5/8"	1.000	149.600	149.60
Light Eq Mileage	65.000	1.760	114.40
Heavy Eq Mileage	65.000	3.520	228.80
Ton Mileage	783.000	1.320	1,033.56
Depth Charge 1001'-2000'	1.000	1,320.000	1,320.00

 Net Invoice
 6,049.56

 Sales Tax:
 325.47

 Total
 6,375.03

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.



Customer	LD Drilling		-		0	e & Well#	C	4.00							10/2004
													Date	711	19/2021
	Oakley KS	1.			district district	ity & State	-		_	Legals S/T/R New Well?	28-19S		Job#		
Job Type	PTA	NO PERSONAL PROPERTY OF THE PERSON NAMED IN COLUMN 1	✓ PROD		☐ IN.	,	☐ SV				✓ YES	☐ No	Ticket#	W	P 1614
Equipment #	Drive	er					Jo	b Safety	/ Ana	alysis - A Discuss	ion of Hazards	& Safety Pro	cedures		
78	Fennis	[✓ Hard h	nat			✓ GI				☐ Lockout/Ta	gout	☐ Warning Sign	s & Flagging	
230	Mike	[✓ H2S M	1onitor			∠ Ey	e Protec	tion		Required Pe	ermits	Fall Protectio	n	
194/254	Kale		✓ Safety					spirator			✓ Slip/Trip/Fa	ll Hazards	Specific Job S	equence/Exp	ectations
		[✓ FRC/P	rotectiv	e Cloth	ing	Ac	lditional	Che	mical/Acid PPE	✓ Overhead H	lazards	✓ Muster Point	/Medical Loca	itions
		[✓ Hearin	ng Prote	ction		✓ Fir	e Exting	uishe	er	Additional of	concerns or is	sues noted below		
										Con	nments				
										son in charge				nospital [Dighton KS.
		J	Emerge	ergency phone # 911. Stay off floor while rig running / pulling drill pipe.											
Product/ Service															
Code			建造 选	Descr	iption					Unit of Measure	Quantity				Net Amount
CP055	H-Plug						-			sack	280.00				\$3,203.20
FE290	8 5/8" Wood									ea	1.00				\$149.60
M015	Light Equipr									mi	65.00				\$114.40
M010	Heavy Equip	pment Mil	eage							mi	65.00				\$228.80
M020	Ton Mileage	9								lm	783,00				\$1,033.56
D012	Depth Charg	ge: 1001'-	2000'							job	1.00				\$1,320.00
					-Kenning										
Custo	omer Section	n: On the	following	scale h	ow wou	ıld you rate	Hurrica	ne Servi	ces	Inc.?				Net:	\$6,049.56
											Total Taxable	\$ -	Tax Rate:		> <
Ва	sed on this	job, how	likely is	it you v	vould r	ecommen	d HSI to	a collea	igue	?			ducts and services	Sale Tax:	\$ -
											used on new well Hurricane Service		ax exempt. customer provided		
ı	Julikely 1	2 3	4	5	6	7 8	9	10	Ext	remely Likely	well information a services and/or p		a determination if		
										-,,	SSIVICES ANGIOI P		i	Total:	\$ 6,049.56
TEDMS: Cook in editor	nge uplees !!	urricana C	nuices le-	/Hen t-	10 20-7-	wod eredir -	vior to a - 1	o Cradii	lore	s of sale fee	HSI Represe		Fennis Gard		eto efinuci D
TERMS: Cash in adva due accounts shall pa affect the collection, C previously applied in a date of issue. Pricing services, Any discoun	y interest on the Customer herel priving at net it does not includ	he balance by agrees i invoice prid de federal,	past due a to pay all fe e. Upon re state, or lo	et the rate es direction evocation ocal taxe	e of 1 ½ tly or inc , the full s, or roy	% per mont directly incur invoice price allies and s	h or the n red for su se without tated pric	naximum ich collec discount e adjustm	allow tion. is im tents.	vable by applicable st In the event that Cus imediately due and s . Actual charges may	ate or federal laws stomer's account w ubject to collection vary depending up	. In the event in th HSI become Prices quoted from time, equip	t is necessary to emples delinquent, HSI had are estimates only oment, and material to	oloy an agency as the right to re and are good fo altimately requi	and/or allorney to evoke any discount or 30 days from the red to perform these

services. Any discount is based on 30 days net payment terms or cash. <u>Institution in the cash of the </u>

Y	CUSTOMER AUTHORIZATION SIGNATURE



EMENT	TRE	ATMEN	T REP	ORT											
Cust	omer:	LD Drilli	ng		Well:	Spee	er 1-28	Ticket:	WP 1614						
City,	State:				County:				7/19/2021						
		Fennis (Gardun	<u> </u>		County: Lane KS Date: 7/19/20 S-T-R: 28-19S-28W Service: PTA									
	itep.	- Cillis	Jardun		S-1-R:	20-13	3-20VV	Service:	PIA						
	等。的是	nformatio			Calculated Slu	irry - Lead		Calc	ulated Slurry - Tail						
	Size:	7.875			Blend:	H-Plug		Blend:							
Hole D	199	4785			Weight:	13.8 ppg		Weight:	ppg						
Casing	THE POST OF	8 5/8		·	Water / Sx:	6.9 gal / sx		Water / Sx:	gal / sx						
Casing E		220			Yield:	1.42 ft ³ / sx		Yield:	ft³/sx						
/ Fubing -	A	4 1/2			Annular Bbls / Ft.:	bbs / ft.		Annular Bbls / Ft.:	bbs / ft.						
	epth:	2160	ft		Depth:	ft	-	Depth:	ft						
Tool / Pa					Annular Volume:	0.0 bbls		Annular Volume:	0 bbls						
Tool E		-	ft		Excess:	STATE OF THE PARTY	-	Excess:							
Displace	nteilt#	Sec. Management	bbls	Mary Mc Constant	Total Slurry:	71.0 bbls	-	Total Slurry:	0.0 bbls						
TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	Total Sacks:	280 sx		Total Sacks:	0 sx						
5:45 PM	حالمند	101	120.40	- BBLS	Journey management me	eting			CONTROL CONTROL OF CASE OF CASE						
6:00 PM					Convoy to location	Jeung									
7:30 PM					Arrive on location										
7:35 PM				-	Safety meeting										
7:45 PM					Spot in / rig up equipmen	nt									
10:15 PM		100.0			Rig land drill pipe @ 216										
0:21 PM	4.0	130.0	5.0	5.0	Pump fresh water space										
10:25 PM		180.0	12.5	17.5	Mix 50 sx H-Plug @ 13.8										
10:28 PM		160.0	2.0	19.5	Pump fresh water space										
10:36 PM		100.0	25.0	44.5	Rig balance plug with W										
				44.5	TOOH to 1320'										
11:39 PM	5.0	60.0	5.0		Pump fresh water space	·									
11:42 PM	4.5	160.0	20.3		Mix 80 sx H-Plug @ 13.8										
11:49 PM	4.3	120.0	13.0		Balance plug										
					TOOH to 630'										
12:26 AM	5.0	50.0	5.0		Pump fresh water space	r									
12:30 AM	4.0	80.0	12.5		Mix 50 sx H-Plug @ 13.8	ppg									
12:34 AM	4.0	100.0	4.5		Balance plug										
					TOOH to 270'										
12:53 AM	5.0	40.0	5.0		Pump fresh water space	r									
12:57 AM	3.5	100.0	12.5		Mix 50 sx H-Plug @ 13.8	ppg									
1:02 AM	3.5	100.0	0.5		Balance plug			Port							
					TOOH push wooden plug	g to 60'									
2:00 AM	2.0	80.0	7.5		Plug RH with 30 sx H-Plu										
2:07 AM	2.0	0,08	5.0		Plug 60' surface with 20	sx H-Plug @ 13.8 ppg									
2:30 AM					Rig down leave location										
		CREW			UNIT			SUMMAR	Y						
Cen	enter:	Fenn	is		78	Avera	ge Rate	Average Pressure	Total Fluid						
Pump Op	erator:	Mike			230	4.	bpm	103 psi	135 bbls						
	ulk #1:	Kale			194/254										
В	ulk #2:														

ftv: 13-2021/01/19 mplv: 105-2021/01/27



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:	7/10/2021
Invoice #:	0354071
Lease Name:	Speer
Well#:	1-28 (New)
County:	Lane, Ks
Job Number:	WP1577
District:	Oakley

Date/Description	HRS/QTY	Rate	Total
8.625" Surface	0.000	0.000	0.00
H-325	200.000	17.600	3,520.00
Light Eq Mileage	65.000	1.760	114.40
Heavy Eq Mileage	65.000	3.520	228.80
Ton Mileage	611.000	1.320	806.52
Depth Charge 0'-500'	1.000	880.000	880.00

Total	5,549.72

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 1/2% 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.



Customer	LD Dr	illing					Lease	& We	11#	Speer	#1-28						Date	7/1	0/202	1
Service District	Oakle	y KS					Count	ty & St	ate	ane K	s		19	Legals S/T/R	28-19S-	28W	Job#			
Job Type	8.625	Surf	ace	IJ PI	ROD	E-E = 10	Nai 🗆	p ^{ILII}		☐ sw	/D		100	New Well?	✓ YES	☐ No	Ticket#	W	P 157	7
Equipment#	4	Drive	r							Jol	Safe	ety A	Analy	sis - A Discus	sion of Hazards 8	k Safety Pro	cedures			
242	Fenni	-		IJ H	ard ha	t				✓ Glo					☐ Lockout/Tag	jout	☐ Warning Sig	ns & Flagging		
230	Mike			IJ H	25 Mo	nitor				☑ Eye	Prote	ectic	on		Required Pe	rmits	Fall Protection	nc		
				✓ S	afety F	ootwe	ar			Re:	12000	1177, V.V.			Slip/Trip/Fal		Specific Job			ons
							e Clothi	ng	- (al/Acid PPE	✓ Overhead H		✓ Muster Poin		tions	
				N H	earing	Prote	ction			✓ Fire	e Extir	nguis	sher			oncerns or is	sues noted belov	/	_	_
															nments					
				Mus	ter p	ooint	t entr	ance	of	locat	ion.	. Pe	erso	n in charg	e of head co	unt Feni	nis. Emerge	ncy phone)#9	11
Product/ Service	100		STEW!	(5, FS	Verei				201	10.0	All Inc.	200			Lumb are			200		Van de Francisco
Code					(RIV)	Descri	iption						U	nit of Measure	Quantity				Net	t Amount
CP015	H-325												+	sack	200,00					\$3,520.00
M015	Light I	Equip	ment Mil	leage							_		-	mi	65.00			-	_	\$114.40
M010	Heavy	/ Equi	pment A	Aileage				_	_		-		-	mi	65.00				_	\$228.80
M020	Ton N	1ileage	3	_	_				_		_	_	+	tm	611.00				_	\$806,52
D010	Depth	Char	ge: 0'-50	00,	_	_			_	_	_	_	+	job	1.00				_	\$880,00
	-			-					_		_	_	+							
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				***				10.2.0.0	00/00/00		1000				Total Taxable	\$ -	Tax Rat		_	_
В	ased o	n this	job, ho	ow like	ly is it	you v	would r	ecomi	mend	HSI to	a co		gue?		used on new wel Hurricane Servic	ls to be sales es relies on th	e customer provide		\$	•
	Unlikely	1	2	3	4	5	6	7	8	9		10	Exyen	nely Likely	well information : services and/or p		a determination if exempt.	Total:	s	5,549,72
			101		Mary .	69	(86)	**				0574	in said	never (Mineri (Min	HSI Repres	2	Fennis Ga	7	1 4	2,242,17
TERMS: Cash in adv	vance u	nless h	furricane	Service	es inc.	(HSI) h	as appro	oved cre	edit pri	or to sa	le. Cre	edit te	erms o	of sale for approv	red accounts are tot state or federal law	al invoice due s. In the event	on or before the 30 it is necessary to e	th day from the o	date of	invoice, Pas or attorney to

TEMBS: Cash in advance unless Hurricane Services inc. (HSI) has approved credit prior to sale. Credit terms of sale terms of sale executins are table invoiced on the bottom of the Soft day from the due accounts half pay interest on the balance past due at the rate of 1 %% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attempts of 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 royalities 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. <u>DISCLAIMER NOTICE</u>: 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.

CUSTOMER AUTHORIZATION SIGNATUR
COSTOWER AUTHORIZATION SIGNATUR



					~									
MENT TRE	ATMEN	T REPO	DRT											
Customer:	LD Drilli	ng		Well:		Speer #1-28	Ticket:	WP 1577						
City, State:				County:	County: Lane KS Date: 7/10/2021									
Field Rep:	Fennis C	Sarduno)	S-T-R:	28-19S-28W Service: 8.625" Surface									
	research of the second	William Service				SAUGE								
Downhole I		1000	- 1	Calculated Slu		0205/20202	CONTRACTOR STATE	lated Slurry - Tail						
Hole Size:	12.25			Blend:	H-32		Blend:							
Hole Depth:	238			Weight:	14.8 pj		Weight:	PPG						
Casing Size:	8 5/8			Water / Sx:	6.9 g		Water / Sx: Yield:	gal / sx ft³ / sx						
Casing Depth: Fubing / Liner:	228.51	in		Yield:	1.41 ft		Annular Bbls / Ft.:	bbs/ft.						
Depth:		ft		Annular Bbls / Ft.:	ft	bs / ft.	Depth:	ft ft						
Tool / Packer:				Depth:	0.0 bi		Annular Volume:	0 bbls						
Tool Depth:		ft		Excess:	0.0 10	, i	Excess:	V 2010						
Displacement:	13.2			Total Slurry:	51.0 Ы	bls	Total Slurry:	0.0 bbls						
	Wigness.	STAGE	TOTAL	Total Sacks:	200 s		Total Sacks:	0 sx						
TIME RATE	PSI	BBLs		REMARKS	R MANAGE	CAVE DE EVICEN	加加斯斯斯	NEWS STREET, S						
8:15 PM		*	*	Journey management me	eeting									
8:30 PM			V	Convoy to location										
10:00 PM				Arrive on location										
10:05 PM				Safety meeting										
10:15 PM				Spot in / rig up equipmen	nt									
11:00 PM	150.0			Rig land casing & circula	ate									
11:05 PM				Hook cementing equipm	ent to casing	1								
11:10 PM 5.0	200.0	5.0	5.0	Pump fresh water space	r									
11:13 PM 5.5	500.0	51.0	56.0	Mix 200 sx H-325 @ 14.8	3 ррд									
11:23 PM 5.0	300.0		56.0	Start fresh water displac	cement leavir	ng 20' shoe trac								
11:30 PM	300.0	13.2	69.2	S/D shut in casing leaving	ng 300 psi on	casing								
12:30 AM				Rig down / leave location	n									
				Management of the second property and the	NOTION OF THE PARTY OF									
				Circulated 5 bbls cemen	nt to the pit									
														
MAN THE PAR	CREV	1008	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UNIT		达 罗里哈森林塔尔萨	SUMMAR	e to the feet of the same						
Cementer:	Feni		The second section is the second seco	242	Г	Average Rate	Average Pressure	Total Fluid						
Pump Operator:				230		5.2 bpm	290 psi	69 bbls						
Bulk #1:					T									
Bulk #2:														