KOLAR Document ID: 1423578

Confiden	tiality Requeste	d:
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

		DECODIDEIO		
WELL	HISTORY	- DESCRIPTIO	N OF WELL	& LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	Sec TwpS. R East 🗌 West
Address 2:	Feet from North / South Line of Section
City: State: Zip:	+ Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
	Workover Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
	Total Vertical Depth: Plug Back Total Depth:
	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	
Well Name:	
Original Comp. Date: Original Total D	
	Conv. to SWD Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Plug Back Liner Conv. to GSW	
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
	Location of fluid disposal if hauled offsite:
EOR Permit #:	Oneveter Neme
GSW Permit #:	
•	Quarter Sec TwpS. R East West
Recompletion Date Rec	completion Date 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:					

KOLAR Document ID: 1423578

Operator Nam	ne:			Lease Name:	Well #:
Sec	Twp	S. R	East West	County:	

Page Two

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 (Attach Additional Sheets)		Y	Yes No		Log Formation (Top), Depth and I			and Datum	d Datum	
·	*		és 🗌 No	Name Top		Datum				
Samples Sent to Geological Survey Cores Taken Electric Log Run Geologist Report / Mud Logs List All E. Logs Run:			ies No ies No ies No							
		Repo	CASING I] Ne	w Used rmediate, productio	on, etc.			
Purpose of String	Size Hole Drilled		ze Casing tt (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
			ADDITIONAL	CEMENTING /	SQU	EEZE RECORD				
Purpose: Perforate	Depth Top Bottom	Туре	e of Cement	# Sacks Used	k		Type and	Percent Additives		
Protect Casing Plug Back TD Plug Off Zone										
 Did you perform a hydra Does the volume of the is Was the hydraulic fractu Date of first Production/Inj 	total base fluid of the h ring treatment informa	nydraulic fra tion submit	acturing treatment	al disclosure regis	-	Yes Yes Yes Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three		
Injection:			Flowing	Pumping		Gas Lift 🗌 O	ther <i>(Explain)</i>			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity	
DISPOSITION	I OF GAS:		M	ETHOD OF COM	/IPLE	TION:			ON INTERVAL:	
Vented Sold (If vented, Subm	Used on Lease		Open Hole		-		mingled	Тор	Bottom	
	oration Perfora Top Botto		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeeze		
TUBING RECORD:	Size:	Set At:		Packer At:						

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	ILENE 1-2
Doc ID	1423578

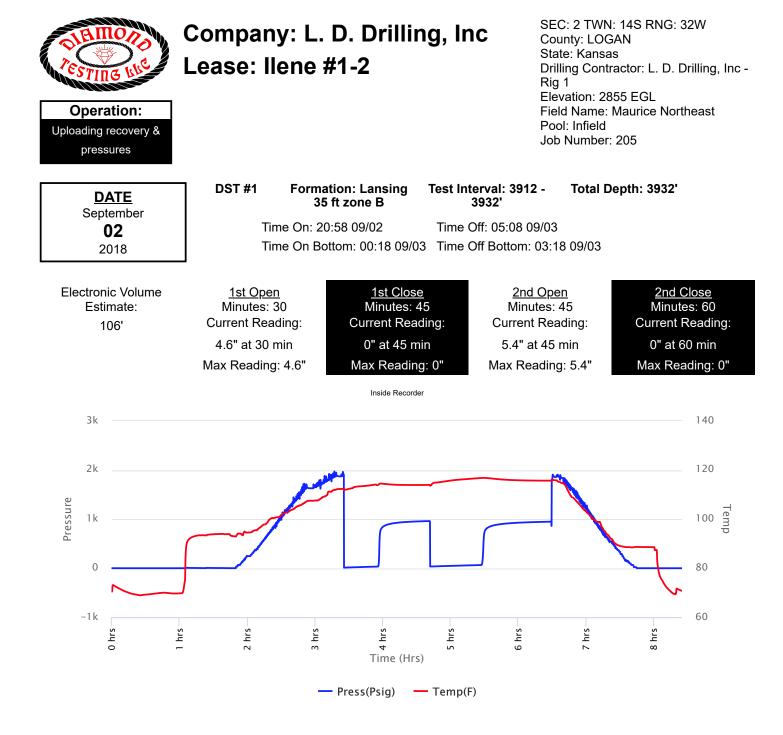
Tops

Name	Тор	Datum
ANHYDRITE	2338	+522
BASE ANHYDRITE	2359	+501
STOTLER	3491	-631
HEEBNER	3848	-988
LANSING	3888	-1028
STARK	4136	-1276
MARMATON	4250	-1390
FORT SCOTT	4401	-1541
CHEROKEE	4428	-1568
MISSISSIPPI	4559	-1699
MISS SPERGEN	4660	-1800

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	ILENE 1-2
Doc ID	1423578

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	25	258	60/40 POZMIX	3%CC,1/4 #CF



Operation: Uploading recovery & pressures	Compan Lease: II	y: L. D. Dril ene #1-2	ling, Inc	Cou Sta Dril Rig Ele Fiel Poo		L. D. Drilling, Inc -
DATE	DST #1	Formation: Lansin 35 ft zone B	ig Test Interval 3932'		Total Depth:	3932'
September 02	Tin	ne On: 20:58 09/02	Time Off: 0	5:08 09/03		
2018	Tin	ne On Bottom: 00:18 ()9/03 Time Off Bo	ottom: 03:1	8 09/03	
	4					
<u>Recovered</u>	Dec	ania di successi di Filo da l				
Foot BBLS 108 1.108		<u>cription of Fluid</u> HMCW	<u>Gas %</u> 0	<u>Oil %</u> 0	<u>Water %</u> 70	<u>Mud %</u> 30
			0	U	70	30
Total Recovered: 10 Total Barrels Recov		Reversed Out NO		Recover	ry at a glance	
Initial Hydrostatic Pre	ssure 187	3 PSI	0.5			
, Initial		32 PSI	BBL C.O			
Initial Closed in Pres	sure 959	PSI				
Final Flow Pre	ssure 33 to	63 PSI				
Final Closed in Pres	sure 946	B PSI	0			
Final Hydrostatic Pres	sure 186	2 PSI	I		Recovery	
Temper	ature 117	°F	Gas	• Oil	🔵 Water 🛛	Mud
Pressure Change Close / Final (8 %	0%	0%	70%	30%



Uploading recovery &

pressures

Company: L. D. Drilling, Inc Lease: Ilene #1-2

SEC: 2 TWN: 14S RNG: 32W County: LOGAN State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 2855 EGL Field Name: Maurice Northeast Pool: Infield Job Number: 205

<u>DATE</u>	
September	
02	
2018	

BUCKET MEASUREMENT:

1st Open: Wsb built to 4.6" 1st Close: Nobb 2nd Open: Wsb built to 5.4" 2nd Close: Nobb

REMARKS:

Tool Sample: 0% Gas 0% Oil 80% Water 20% Mud

Ph: 7

Measured RW: .2 @ 67 degrees °F

RW at Formation Temp: 0.119 @ 117 °F

Chlorides: 38000 ppm

DST #1 Formation: Lansing 35 ft zone B

Test Interval: 3912 -3932'

Total Depth: 3932'

Time On: 20:58 09/02 Time On Bottom: 00:18 09/03 Time Off Bottom: 03:18 09/03

Time Off: 05:08 09/03

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Operation: Uploading recovery & pressures

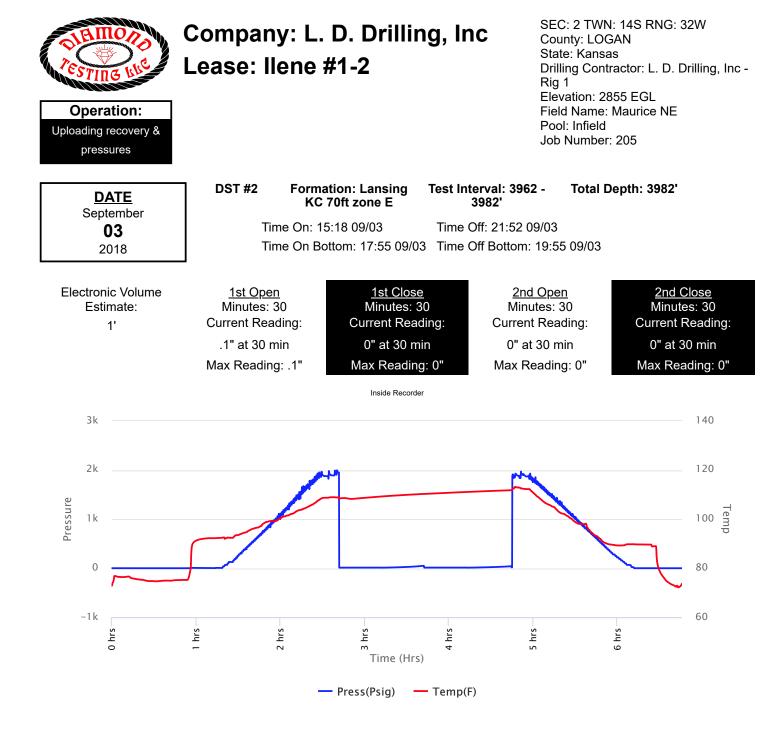
Company: L. D. Drilling, Inc Lease: Ilene #1-2

SEC: 2 TWN: 14S RNG: 32W County: LOGAN State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 2855 EGL Field Name: Maurice Northeast Pool: Infield Job Number: 205

<u>DATE</u> September		tion: Lansing ft zone B	Test Interval: 3912 - 3932'	Total Depth: 3932'
02	Time On: 20):58 09/02	Time Off: 05:08 09/03	
2018	Time On Bo	ttom: 00:18 09/03	Time Off Bottom: 03:18	09/03

Heads Up:	23.51 FT	Packer 1:	3907 FT
Drill Pipe:	3902.94 FT	Packer 2:	3912 FT
ID-3 1/4		Top Recorder:	3896.42 FT
Weight Pipe: ID-2 7/8	FT	Bottom Recorder:	3914 FT
Collars:	FT	Well Bore Size:	7 7/8
ID-2 1/4		Surface Choke:	1"
Test Tool: ID-3 1/2-FH	33.57 FT	Bottom Choke:	5/8"
Jars			
Safety Joint			
Total Anchor:	20		
<u>Anchor</u> Packer Sub:	<u>Makeup</u> 1 FT		
Perforations: (top): 4 1/2-FH	FT		
Change Over:	FT		
Drill Pipe: (in anchor): ID-3 1/4	FT		
Change Over:	FT		
Perforations: (below): 4 1/2-FH	19 FT		

Coperation: Uploading recovery & pressures	-	y: L. D. Drillin ene #1-2	g, Inc Co Sta Dr Rig Ela Fia Pc	EC: 2 TWN: 14S RNG: 32W bunty: LOGAN ate: Kansas illing Contractor: L. D. Drilling, Inc - g 1 evation: 2855 EGL eld Name: Maurice Northeast bol: Infield b Number: 205
DATE September	DST #1	Formation: Lansing 35 ft zone B	Test Interval: 3912 - 3932'	Total Depth: 3932'
02	Tir	ne On: 20:58 09/02	Time Off: 05:08 09/03	3
2018	Tir	ne On Bottom: 00:18 09/03	Time Off Bottom: 03:	18 09/03
		Mud Proper	ties	
Mud Type: Chemical	Weight: 9.0	Viscosity: 54	Filtrate: 6.4	Chlorides: 2000 ppm



Company: L. D. Drilling, Inc Lease: Ilene #1-2					Cou Sta Dril Rig Ele Fiel Poo		: L. D. Drilling, Inc - GL
DATE	DST #2	Formation: Lansin KC 70ft zone E		erval: 3 3982'	962 -	Total Depth	: 3982'
September 03 2018		ne On: 15:18 09/03 ne On Bottom: 17:55 (-	-	2 09/03 m: 19:5	5 09/03	
<u>Recovered</u> Foot BBLS	<u> </u>	cription of Fluid	<u>Gas %</u>		<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
1 0.0102	26	Μ	0		0	0	100
Total Recovered: 1 Total Barrels Recov		Reversed Out NO	0.01	R	ecovei	ry at a glance)
Initial Hydrostatic Pres	sure 1893	3 PSI					
Initial		11 PSI	Ц 18 0.005				
Initial Closed in Pres	sure 48	PSI					
Final Flow Pres	ssure 10 to	11 PSI					
Final Closed in Pres	sure 39	PSI	0				
Final Hydrostatic Pres	sure 189					Recovery	
Temper Pressure Change Close / Final (Initial 20.2			Gas 0%	Oil 0%	• Water • 0%	Mud 100%



Uploading recovery &

pressures

Company: L. D. Drilling, Inc Lease: Ilene #1-2

SEC: 2 TWN: 14S RNG: 32W County: LOGAN State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 2855 EGL Field Name: Maurice NE Pool: Infield Job Number: 205

DATE September 03 2018

BUCKET MEASUREMENT:

1st Open: Wsb no build 1st Close: Nobb 2nd Open: no blow no build 2nd Close: nobb

REMARKS:

tool sample 100% mud oil spec

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

DST #2 Formation: Lansing KC 70ft zone E

Test Interval: 3962 -3982'

Total Depth: 3982'

Time On: 15:18 09/03

Time Off: 21:52 09/03 Time On Bottom: 17:55 09/03 Time Off Bottom: 19:55 09/03

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Operation: Uploading recovery & pressures

Company: L. D. Drilling, Inc Lease: Ilene #1-2

SEC: 2 TWN: 14S RNG: 32W County: LOGAN State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 2855 EGL Field Name: Maurice NE Pool: Infield Job Number: 205

DATE	
September	
03	
2018	

DST #2 Formation: Lansing KC 70ft zone E

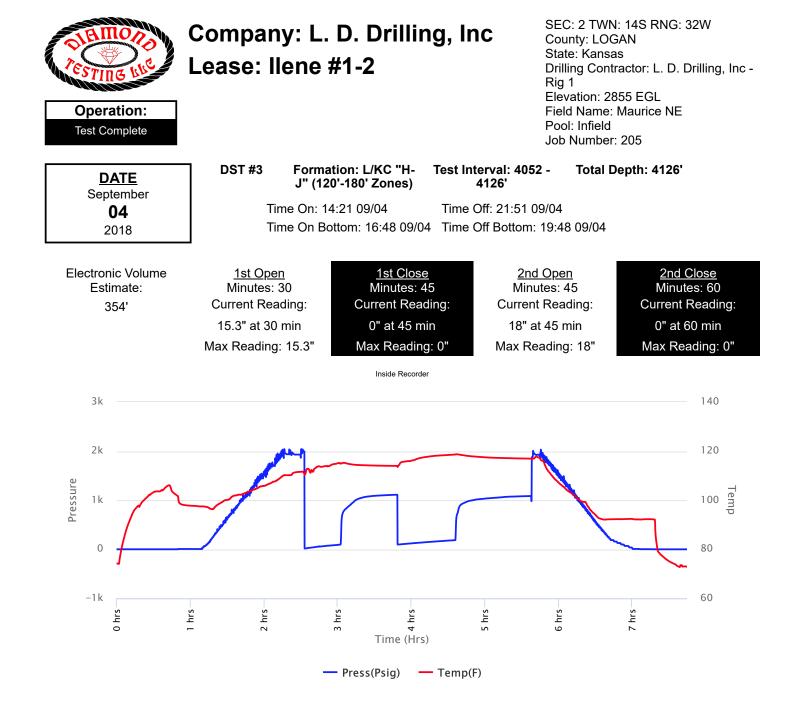
Total Depth: 3982' 3982'

Test Interval: 3962 -

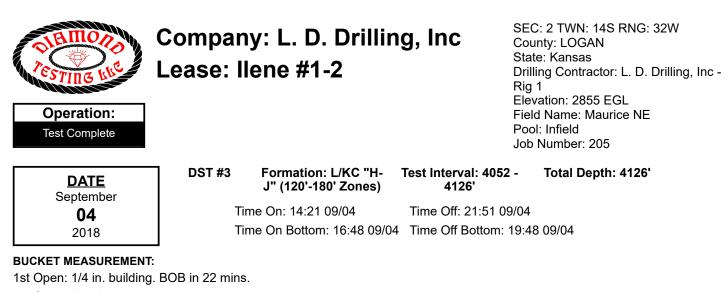
Time Off: 21:52 09/03 Time On: 15:18 09/03 Time On Bottom: 17:55 09/03 Time Off Bottom: 19:55 09/03

Heads Up:	4.0199999999998 FT	Packer 1:	3957 FT
Drill Pipe:	3933.45 FT	Packer 2:	3962 FT
ID-3 1/4		Top Recorder:	3946.42 FT
Weight Pipe: ID-2 7/8	FT	Bottom Recorder:	3964 FT
Collars:	FT	Well Bore Size:	7 7/8
ID-2 1/4		Surface Choke:	1"
Test Tool: ID-3 1/2-FH Jars	33.57 FT	Bottom Choke:	5/8"
Safety Joint			
Total Anchor:	20		
	<u>Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top): 4 1/2-FH	FT		
Change Over:	FT		
Drill Pipe: (in anchor): ID-3 1/4	FT		
Change Over:	FT		
Perforations: (below): 4 1/2-FH	19 FT		

Operation: Uploading recovery & pressures		y: L. D. Drillin ene #1-2	g, Inc Co Sta Dril Rig Ele Fie Poo	C: 2 TWN: 14S RNG: 32W unty: LOGAN ite: Kansas lling Contractor: L. D. Drilling, Inc - 1 vation: 2855 EGL ld Name: Maurice NE ol: Infield o Number: 205
DATE September	DST #2	Formation: Lansing KC 70ft zone E	Test Interval: 3962 - 3982'	Total Depth: 3982'
03	Tir	ne On: 15:18 09/03	Time Off: 21:52 09/03	
2018	Tir	me On Bottom: 17:55 09/03	Time Off Bottom: 19:5	5 09/03
		Mud Proper	ties	
Mud Type: Chemical	Weight: 9.2	Viscosity: 56	Filtrate: 9.6	Chlorides: 3900 ppm



	Company: I Lease: Ilene		ng, Inc	Cou Stat Drill Rig Elev Field Poo		L. D. Drilling, Inc -
DATE		mation: L/KC "H- 120'-180' Zones)	Test Interva 412		Total Depth:	4126'
September		: 14:21 09/04	Time Off: 1	21:51 09/04		
04		Bottom: 16:48 09/04			3 00/04	
2018	Time Off	Dottom: 10.40 09/		000000000000000000000000000000000000000	5 05/04	
<u>Recovered</u>						
Foot BBLS	<u>Descriptio</u>	<u>n of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
65 0.6669	N N	1	0	0	0	100
63 0.6463	B HW	СМ	0	0	50	50
126 1.2927	6 MC	W	0	0	75	25
126 1.2927	6 SLM	CW	0	0	90	10
Total Recovered: 380 Total Barrels Recove	• • • •	Reversed Out NO		Recover	y at a glance	
Initial Hydrostatic Press	sure 1929	PSI	2			
Initial F			BBL			
Initial Closed in Press		PSI	∞ 1			
Final Flow Press		PSI				
Final Closed in Press	ure 1083	PSI	0			
Final Hydrostatic Press	ure 1924	PSI	0		Recovery	
Tempera	ture 119	°F	e Gas	s 🖲 Oil	🔵 Water 🔵	Mud
Pressure Change Ir Close / Final Cl		%	0%	0%	63%	37%



1st Close: No blow back. 2nd Open: Weak, surface blow building. BOB in 28 mins. 2nd Close: No blow back.

REMARKS:

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

Ph: 8

Measured RW: .25 @ 80 degrees °F

RW at Formation Temp: 0.172 @ 119 °F

Chlorides: 24000 ppm



Test Complete

Company: L. D. Drilling, Inc Lease: Ilene #1-2

SEC: 2 TWN: 14S RNG: 32W County: LOGAN State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 2855 EGL Field Name: Maurice NE Pool: Infield Job Number: 205

DATE	
September	
04	
2018	

DST #3 Formation: L/KC "H-J" (120'-180' Zones) Test Interval: 4052 -4126' Total Depth: 4126'

 Time On: 14:21 09/04
 Time Off: 21:51 09/04

 Time On Bottom: 16:48 09/04
 Time Off Bottom: 19:48 09/04

Heads Up:	-35.98 FT	Packer 1:	4047 FT
Drill Pipe:	3983.45 FT	Packer 2:	4052 FT
ID-3 1/4		Top Recorder:	4036.42 FT
Weight Pipe:	FT	Bottom Recorder:	4099 FT
ID-2 7/8		Well Bore Size:	7 7/8
Collars: <i>ID-2 1/4</i>	FT	Surface Choke:	1"
Test Tool:	33.57 FT	Bottom Choke:	5/8"
ID-3 1/2-FH			
Jars			
Safety Joint			
Total Anchor:	74		
Anchor	<u>Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top):	2 FT		
4 1/2-FH			
Change Over:	1 FT		
Drill Pipe: (in anchor):	31.5 FT		
ID-3 1/4			
Change Over:	.5 FT		
Perforations: (below):	38 FT		
4 1/2-FH			

Operation: Test Complete	Company: L. D. Drilling, Inc Lease: Ilene #1-2 SEC: 2 TWN: 14S RNC County: LOGAN State: Kansas Drilling Contractor: L. D Rig 1 Elevation: 2855 EGL Field Name: Maurice N Pool: Infield Job Number: 205	D. Drilling, Inc -
DATE September	DST #3 Formation: L/KC "H- Test Interval: 4052 - Total Depth: 412 J" (120'-180' Zones) 4126'	6'
04	Time On: 14:21 09/04 Time Off: 21:51 09/04	
2018	Time On Bottom: 16:48 09/04 Time Off Bottom: 19:48 09/04	
	Mud Properties	

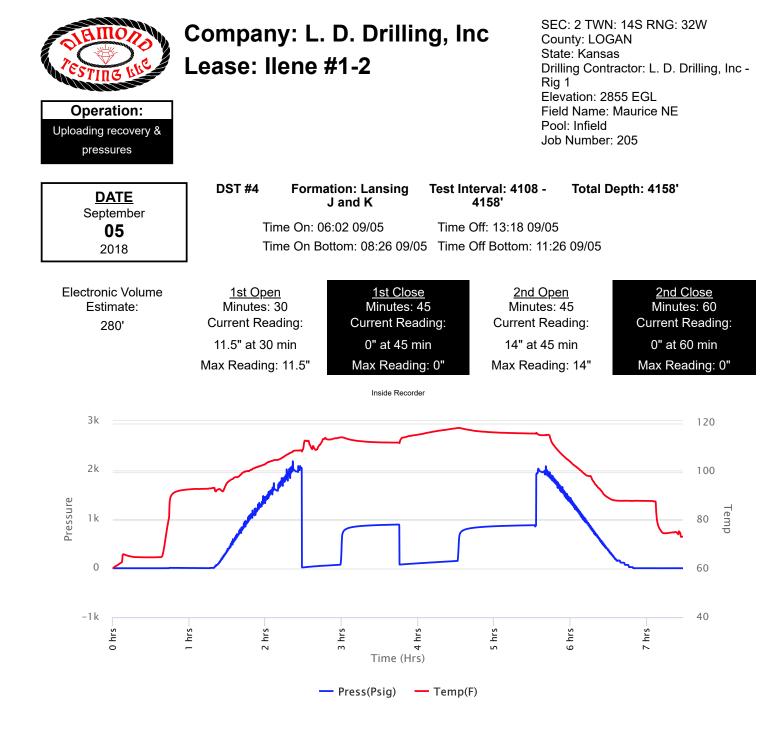
Filtrate: 8.0

Chlorides: 3,500 ppm

Viscosity: 60

Mud Type: Chemical

Weight: 8.9



	Compan <u>y</u> Lease: II			ng, Inc	Co Sta Dri Rig Ele Fie Po	unty: LOGAN ate: Kansas Iling Contract	or: L. D. Drilling, Inc - EGL urice NE
DATE	DST #4	Formation: L J and I		Test Inter 41		Total Dept	h: 4158'
September	_						
05		ne On: 06:02 09		-	13:18 09/05		
2018	lim	ne On Bottom: 0	08:26 09/0	5 Time Off	Bottom: 11:2	6 09/05	
Recovered							
Foot BBLS	Desc	cription of Fluid		<u>Gas %</u>	<u>Oil %</u>	Water %	<u>6 Mud %</u>
108 1.1080	8	HWCM		0	0	40	60
63 0.6463	8	HMCW		0	0	60	40
126 1.2927	6	SLMCW		0	0	90	10
Total Recovered: 29 Total Barrels Recove		Reversed NO	d Out	2	Recove	ry at a glan	ce
Initial Hydrostatic Pres	sure 1978	B PS	I				
Initial I	Flow 14 to	70 PS		1			
Initial Closed in Press	sure 888	PS					
Final Flow Pres	sure 72 to 7	147 PS	l				
Final Closed in Press	sure 874	PS	I	0			
Final Hydrostatic Press	sure 197	3 PS	SI			Recovery	I
Tempera	ature 119	°F	:	🗕 Gas	• Oil	V ater	Mud
Pressure Change I Close / Final C		%		• Gas 0%	0%	65.45%	34.55%



Uploading recovery &

pressures

Company: L. D. Drilling, Inc Lease: llene #1-2

SEC: 2 TWN: 14S RNG: 32W County: LOGAN State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 2855 EGL Field Name: Maurice NE Pool: Infield Job Number: 205

Total Depth: 4158'

DATE September 05 2018

BUCKET MEASUREMENT:

1st Open: 1/4' built to 11.5" 1st Close: Nobb 2nd Open: Wsb bob in 38 min 2nd Close: Nobb

REMARKS:

Tool Sample: 0% Gas 0% Oil 70% Water 30% Mud

Ph: 8

Measured RW: .18 @ 65 degrees °F

RW at Formation Temp: 0.103 @ 119 °F

Chlorides: 42000 ppm

DST #4 Formation: Lansing J and K

Test Interval: 4108 -4158'

Time On: 06:02 09/05 Time On Bottom: 08:26 09/05 Time Off Bottom: 11:26 09/05

Time Off: 13:18 09/05

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Operation: Uploading recovery & pressures

DATE September 05 2018

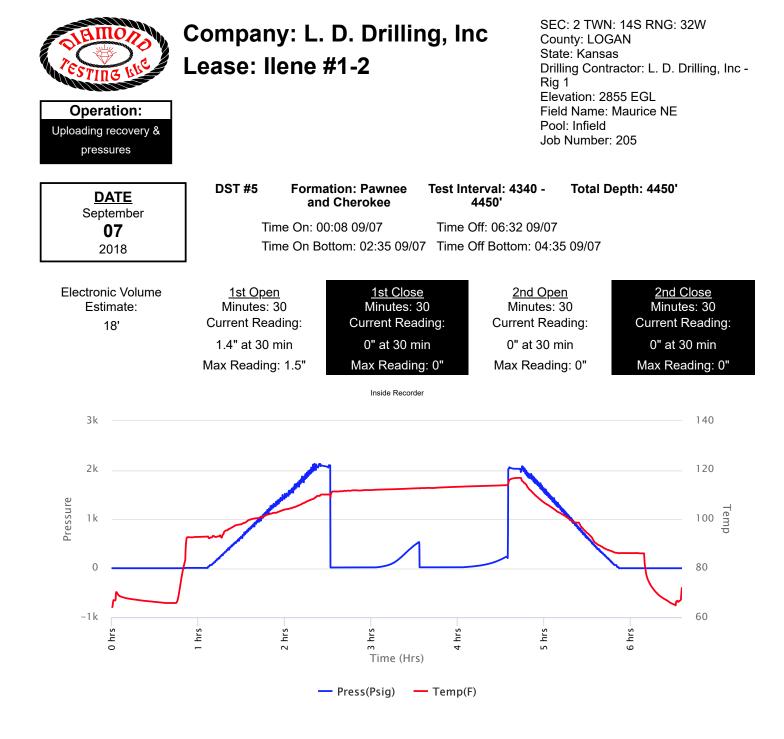
Company: L. D. Drilling, Inc Lease: Ilene #1-2

SEC: 2 TWN: 14S RNG: 32W County: LOGAN State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 2855 EGL Field Name: Maurice NE Pool: Infield Job Number: 205

DST #4	Formation: Lansing J and K	Test Interval: 4108 - 4158'	Total Depth: 4158'
Ti	me On: 06:02 09/05	Time Off: 13:18 09/05	
Ti	me On Bottom: 08:26 09/05	Time Off Bottom: 11:26	09/05

Heads Up:	14.51 FT	Packer 1:	4103 FT
Drill Pipe:	4089.94 FT	Packer 2:	4108 FT
ID-3 1/4		Top Recorder:	4092.42 FT
Weight Pipe: ID-2 7/8	FT	Bottom Recorder:	4145 FT
Collars:	FT	Well Bore Size:	7 7/8
ID-2 1/4		Surface Choke:	1"
Test Tool: ID-3 1/2-FH Jars Safety Joint	33.57 FT	Bottom Choke:	5/8"
Total Anchor:	50		
<u>Anchor</u> Packer Sub:	<u>Makeup</u> 1 FT		
Perforations: (top): 4 1/2-FH	2 FT		
Change Over:	1 FT		
Drill Pipe: (in anchor): ID-3 1/4	31.5 FT		
Change Over:	.5 FT		
Perforations: (below): 4 1/2-FH	14 FT		

Operation: Uploading recovery & pressures	-	iy: L. D. Drillin lene #1-2	g, Inc Cou Sta Dril Rig Ele Fiel Poo	C: 2 TWN: 14S RNG: 32W unty: LOGAN te: Kansas ling Contractor: L. D. Drilling, Inc - 1 vation: 2855 EGL ld Name: Maurice NE bl: Infield 9 Number: 205
DATE September	DST #4	Formation: Lansing J and K	Test Interval: 4108 - 4158'	Total Depth: 4158'
05	Ті	me On: 06:02 09/05	Time Off: 13:18 09/05	
2018	Ti	me On Bottom: 08:26 09/05	Time Off Bottom: 11:20	6 09/05
		Mud Proper	ties	
Mud Type: Chemical	Weight: 9.2	Viscosity: 53	Filtrate: 9.6	Chlorides: 3000 ppm



Operation: Uploading recovery & pressures	Company: L. D. Drilling, Inc Lease: Ilene #1-2					Cou Sta Dril Rig Ele Fiel Poo	unty: LOGAN te: Kansas ling Contracto	urice NE
DATE	DS	T #5 F	ormation: Pawno and Cherokee	ee Test	Interval 4450		Total Dept	h: 4450'
September 07		Time C	0n: 00:08 09/07	Tim	e Off: 06	6:32 09/07		
2018		Time C	n Bottom: 02:35	09/07 Tim	e Off Bo	ottom: 04:3	5 09/07	
Recovered	_							
Foot BBLS	<u>8</u>	Descript	ion of Fluid	Gas	%	<u>Oil %</u>	Water %	<u>Mud %</u>
20 0.205	52		М	0		0	0	100
Total Recovered: 20 Total Barrels Recov		.2052	Reversed Out NO	0.2		Recover	ry at a gland	Ce
Initial Hydrostatic Pre	ssure	2076	PSI					
, Initial		13 to 16	PSI	J 88 0.1				
Initial Closed in Pres	sure	533	PSI					
Final Flow Pre	ssure	16 to 18	PSI					
Final Closed in Pres		231	PSI	0				
Final Hydrostatic Pres		2056	PSI				Recovery	
Temper	ature	114	°F		🗕 Gas	• Oil	Water	Mud
Pressure Change Close / Final		56.7	%		0%	0%	0%	100%



Uploading recovery &

pressures

Company: L. D. Drilling, Inc Lease: Ilene #1-2

SEC: 2 TWN: 14S RNG: 32W County: LOGAN State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 2855 EGL Field Name: Maurice NE Pool: Infield Job Number: 205

DATE September 07 2018

BUCKET MEASUREMENT:

1st Open: 1/4" built to 1.4" 1st Close: Nobb 2nd Open: No blow no build 2nd Close: Nobb

REMARKS: tool sample 100% mud oil spec

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

DST #5 Formation: Pawnee and Cherokee

Test Interval: 4340 -4450'

Total Depth: 4450'

Time On: 00:08 09/07

Time Off: 06:32 09/07 Time On Bottom: 02:35 09/07 Time Off Bottom: 04:35 09/07

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Uploading recovery &

pressures

Company: L. D. Drilling, Inc Lease: Ilene #1-2

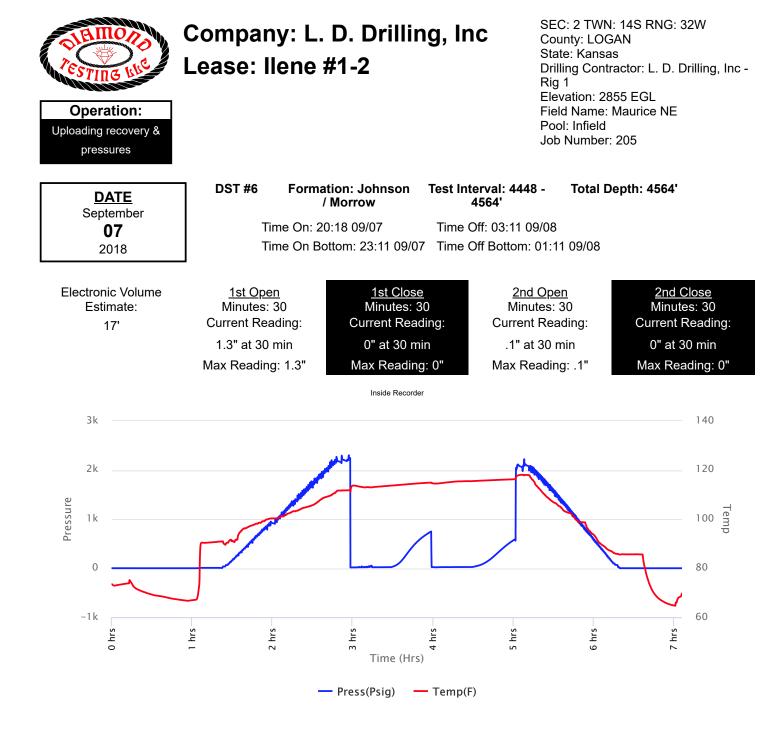
SEC: 2 TWN: 14S RNG: 32W County: LOGAN State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 2855 EGL Field Name: Maurice NE Pool: Infield Job Number: 205

DATE	
September	
07	
2018	

DST #5	Formation: Pawnee and Cherokee	Test Interval: 4340 - 4450'	Total Depth: 4450'
Tir	ne On: 00:08 09/07	Time Off: 06:32 09/07	
Tir	ne On Bottom: 02:35 09/07	Time Off Bottom: 04:35	09/07

Heads Up:	32.29 FT	Packer 1:	4335 FT
Drill Pipe:	4339.72 FT	Packer 2:	4340 FT
ID-3 1/4		Top Recorder:	4324.42 FT
Weight Pipe: ID-2 7/8	FT	Bottom Recorder:	4439 FT
Collars:	FT	Well Bore Size:	7 7/8
ID-2 1/4		Surface Choke:	1"
Test Tool: ID-3 1/2-FH Jars Safety Joint	33.57 FT	Bottom Choke:	5/8"
Total Anchor:	110		
	<u>Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top): 4 1/2-FH	2 FT		
Change Over:	1 FT		
Drill Pipe: (in anchor): ID-3 1/4	93.5 FT		
Change Over:	.5 FT		
Perforations: (below): 4 1/2-FH	12 FT		

Operation: Uploading recovery & pressures	-	y: L. D. Drillin ene #1-2	g, Inc Sta Dril Rig Ele Fie Poo	C: 2 TWN: 14S RNG: 32W unty: LOGAN te: Kansas ling Contractor: L. D. Drilling, Inc - 1 vation: 2855 EGL ld Name: Maurice NE bl: Infield Number: 205
DATE September	DST #5	Formation: Pawnee and Cherokee	Test Interval: 4340 - 4450'	Total Depth: 4450'
07	Ti	me On: 00:08 09/07	Time Off: 06:32 09/07	
2018	Ti	me On Bottom: 02:35 09/07	Time Off Bottom: 04:3	5 09/07
		Mud Proper	ties	
Mud Type: Chemical	Weight: 9.1	Viscosity: 58	Filtrate: 7.2	Chlorides: 3000 ppm



Operation: Uploading recovery & pressures	-	ny: L. D. lene #1-2		ng, I	nc	Cou Sta Dril Rig Ele Fiel Poo		tor: L. D. EGL aurice NE	Drilling, Inc -
DATE	DST #6	Formation: 、 / Morre		Test I	nterval: 4 4564'	1448 -	Total Dep	th: 4564	•
September 07	Ті	ime On: 20:18 0	9/07	Time	e Off: 03:1	1 09/08			
2018	Ti	ime On Bottom:	23:11 09/0	7 Time	e Off Botto	om: 01:1	1 09/08		
Recovered	-								
Foot BBLS	De	scription of Fluid	<u>I</u>	Gas ^o	<u>%</u>	<u>Oil %</u>	<u>Water</u>	<u>%</u>	<u>Mud %</u>
20 0.205	2	SLOCM		0		1	0		99
Total Recovered: 20 Total Barrels Recov		Reverse NC		0.2	F	Recovei	ry at a glan	ice	
Initial Hydrostatic Pres	sure 210	66 PS	SI						
Initial		o 19 PS	SI a	0.1					
Initial Closed in Pres	sure 74	8 PS	SI	_					
Final Flow Pres	sure 20 to	o 22 PS	SI						
Final Closed in Pres		-	-	0					
Final Hydrostatic Pres							Recovery		
Tempera	ature 11	7 °l	F	(📕 Gas	• Oil	Water	Mud	l
Pressure Change I Close / Final C		.4 %	6		0%	1%	0%	99%	



Uploading recovery &

pressures

Company: L. D. Drilling, Inc Lease: Ilene #1-2

SEC: 2 TWN: 14S RNG: 32W County: LOGAN State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 2855 EGL Field Name: Maurice NE Pool: Infield Job Number: 205

DATE September 07 2018

BUCKET MEASUREMENT:

1st Open: Wsb built to 1.3" 1st Close: Nobb 2nd Open: Wsb no build 2nd Close: Nobb

REMARKS:

Tool Sample: 0% Gas 2% Oil 0% Water 98% Mud

DST #6 Formation: Johnson / Morrow

Test Interval: 4448 -4564'

Total Depth: 4564'

Time On: 20:18 09/07 Time On Bottom: 23:11 09/07 Time Off Bottom: 01:11 09/08

Time Off: 03:11 09/08

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Uploading recovery &

pressures

Company: L. D. Drilling, Inc Lease: Ilene #1-2

SEC: 2 TWN: 14S RNG: 32W County: LOGAN State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 2855 EGL Field Name: Maurice NE Pool: Infield Job Number: 205

DATE	
September	
07	
2018	
2018	

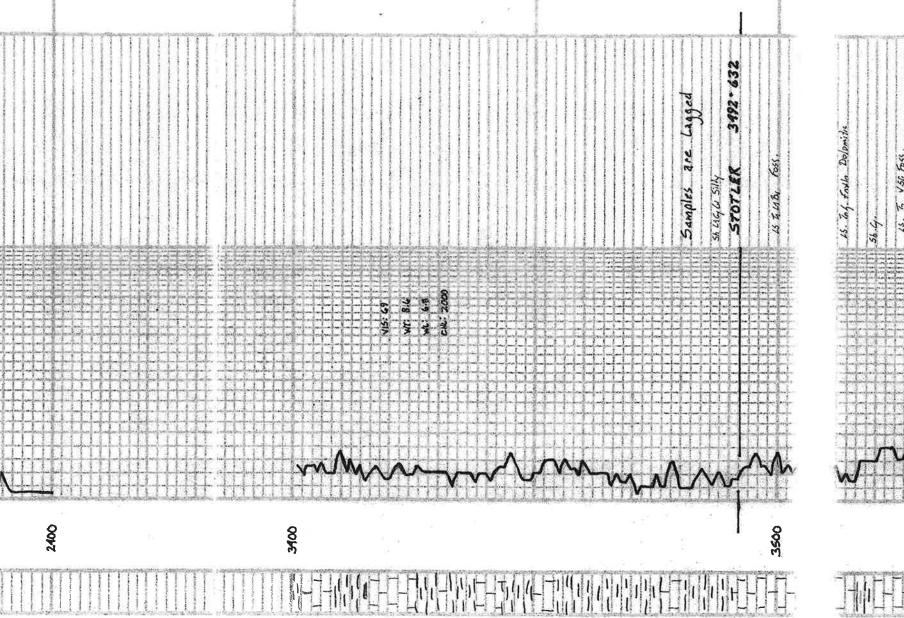
]	DST #6	Formation: Johnson / Morrow	Test Interval: 4448 - 4564'	Total Depth: 4564'
	Tir	me On: 20:18 09/07	Time Off: 03:11 09/08	
	Tir	me On Bottom: 23:11 09/07	Time Off Bottom: 01:11	09/08

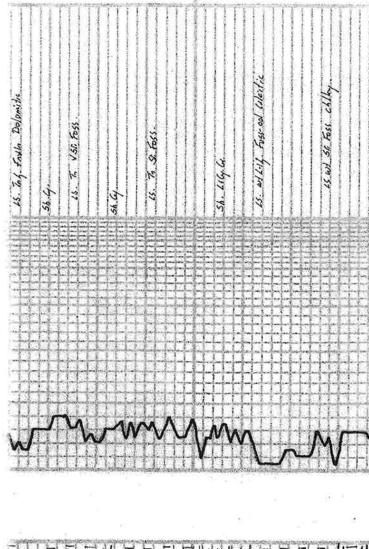
Heads Up:	17.48 FT	Packer 1:	4443 FT
Drill Pipe:	4432.91 FT	Packer 2:	4448 FT
ID-3 1/4		Top Recorder:	4432.42 FT
Weight Pipe: ID-2 7/8	FT	Bottom Recorder:	4548 FT
Collars:	FT	Well Bore Size:	7 7/8
ID-2 1/4		Surface Choke:	1"
Test Tool: ID-3 1/2-FH Jars Safety Joint	33.57 FT	Bottom Choke:	5/8"
Total Anchor:	116		
<u>Anchor</u> Packer Sub:	Makeup		
	1 FT		
Perforations: (top): 4 1/2-FH	2 FT		
Change Over:	1 FT		
Drill Pipe: (in anchor): ID-3 1/4	94.5 FT		
Change Over:	.5 FT		
Perforations: (below): 4 1/2-FH	17 FT		

Operation: Uploading recovery & pressures	-	ny: L. D. Drillin llene #1-2	g, Inc Co Sta Dri Rig Ele Fie Po	C: 2 TWN: 14S RNG: 32W unty: LOGAN ate: Kansas lling Contractor: L. D. Drilling, Inc - g 1 evation: 2855 EGL dd Name: Maurice NE ol: Infield o Number: 205						
DATE September	DST #6	Formation: Johnson / Morrow	Test Interval: 4448 - 4564'	Total Depth: 4564'						
07	r	Time On: 20:18 09/07	Time Off: 03:11 09/08							
2018	[_]	Time On Bottom: 23:11 09/07	Time Off Bottom: 01:1	1 09/08						
Mud Properties										
Mud Type: Chemical	Weight: 9.0	Viscosity: 53	Filtrate: 8.0	Chlorides: 3300 ppm						

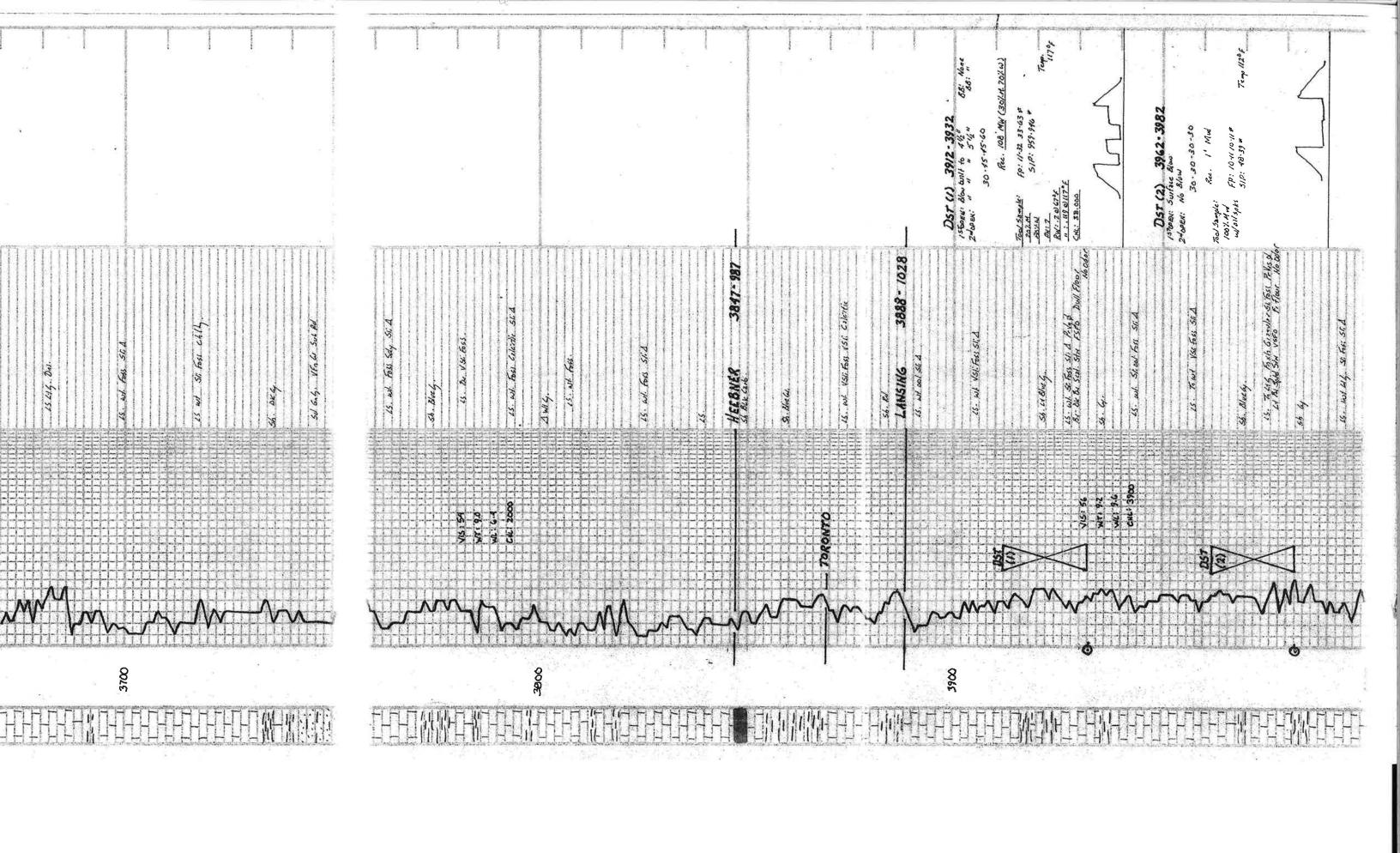
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COMPANY L.D LEASE 1-2 FIELD Maurice LOCATION 1291 SEC 2 TW COUNTY LOGAN CONTRACTOR L.D. SPUD 8-28-18 FTD 4681 MUD UP 3410 SAMPLES SAVED FRO	DRILLING TIME AN DRILLING, TIME AN 2 ILENE 2 NORTHEAST FSL & 1070 FEL SP 145 RGE STATE KAN DRILLING, TINC, COMP 9-9 - LTD 448 TYPE MUD CN	10 SAMPLE LO 32.w SAS 18 1 EMICAL	G ELE KB 28 DF GL 28 Meosurem From 28 SLEFACE 8 PRODUCTION ELECTRIC/ DUAL TIND, 1	VATIONS 60 55 onts Are Al 360 KB ASING 5/8" O 258' V. SURVEYS DENS-N-, MICRO	API: 15-109-21563		LEGEND TEGEND Tele Cob ab lineatene Col.Line Calci		26" SAMPLE DESORIPTIONS REL
DRILLING TIME KEP SAMPLES EXAMINED GEOLOGICAL SUPER GEOLOGIST ON WELL	T FROM	3400 3500 3700	10.4681				Saft Sandstons	TIME IN MINUTES PER FOOT Invention Increases	10" 15" 20"
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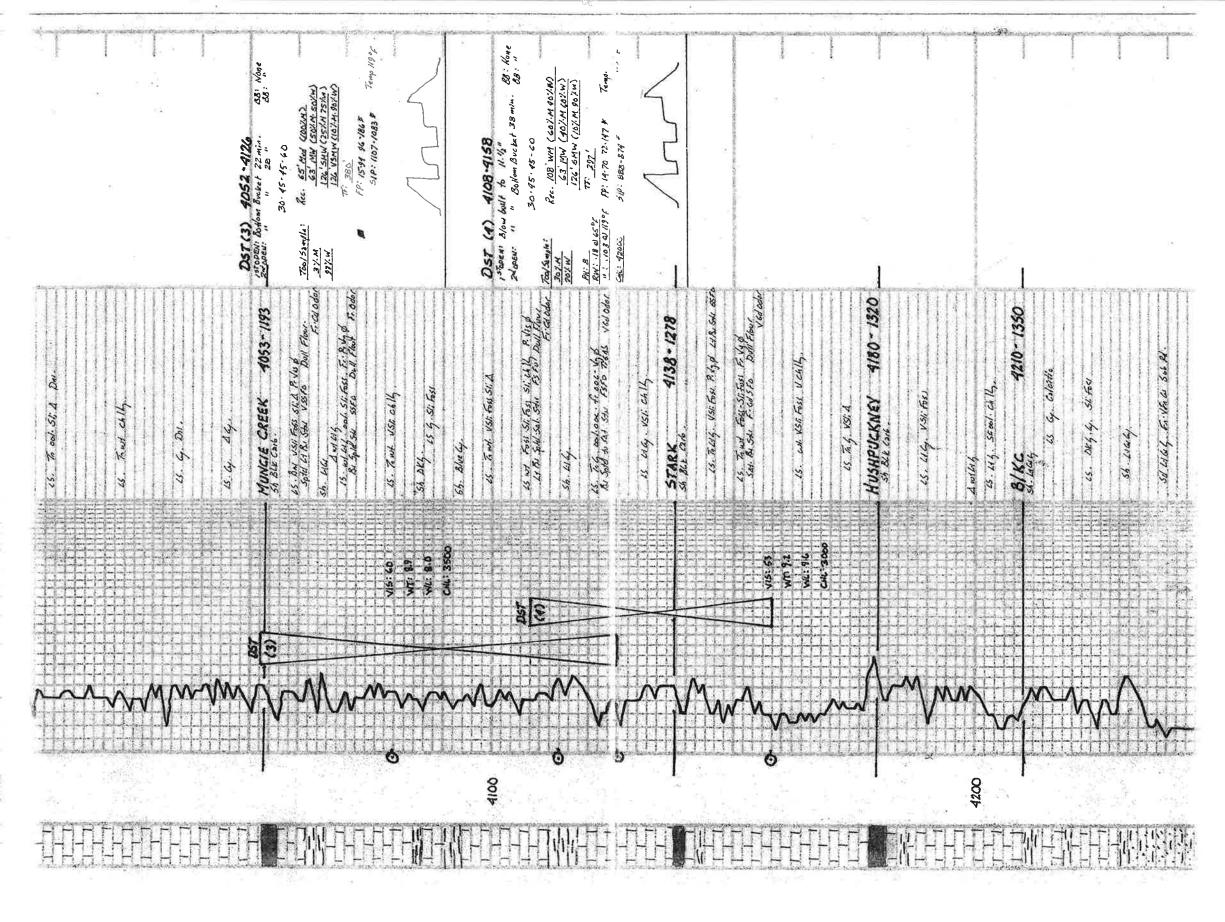
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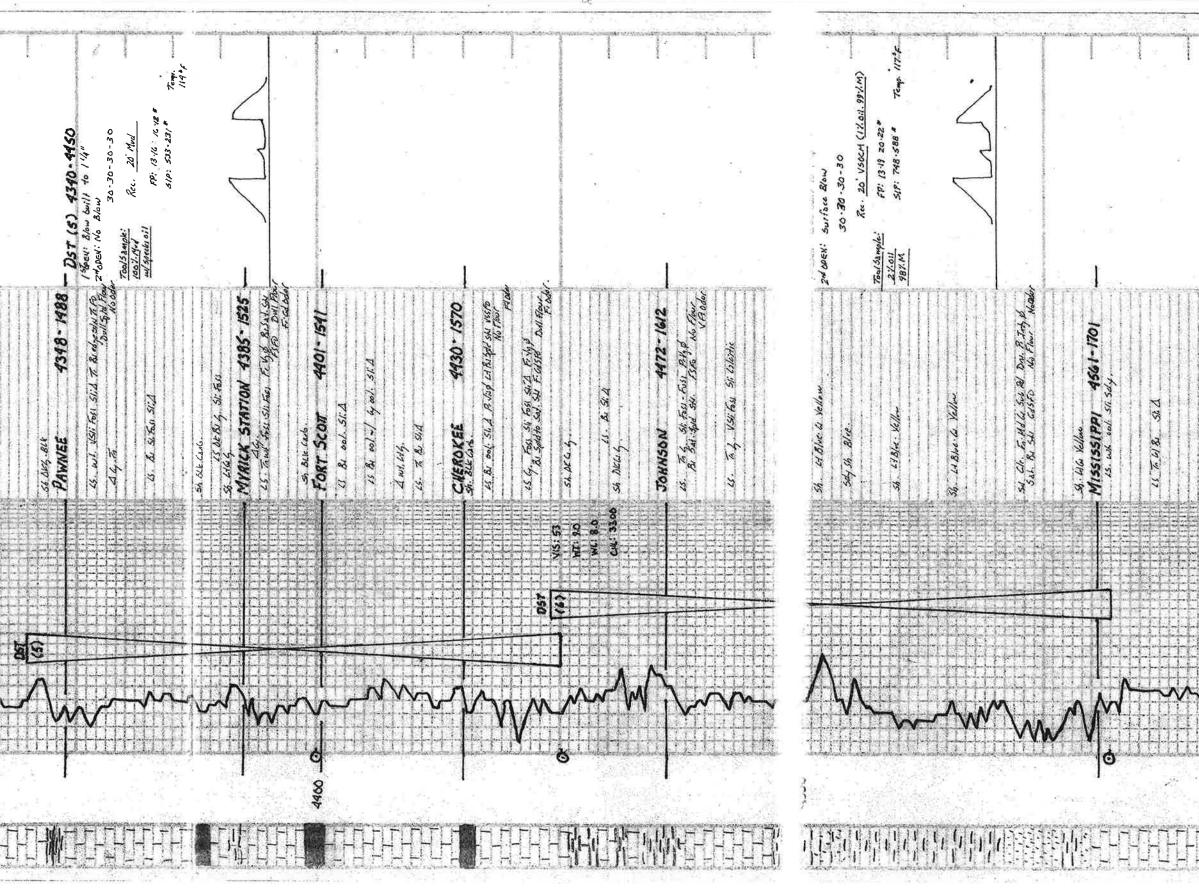


51: 6412 W. VSII Foss 4.4.20% 54. Rd 56 Rd 3600

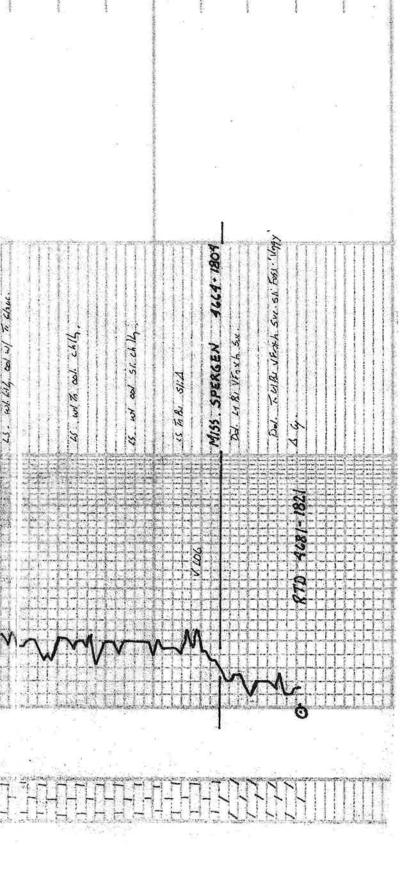


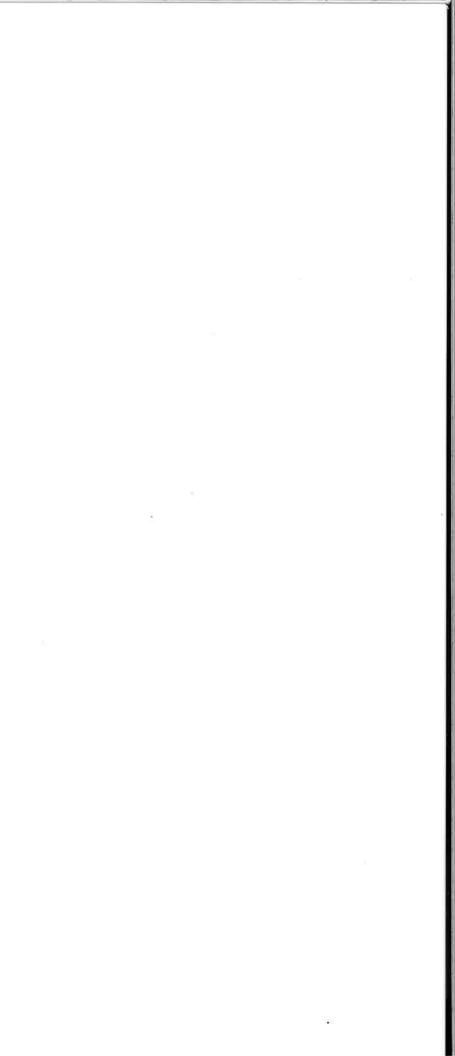


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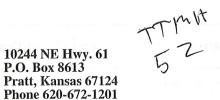
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CLOUD LITHO - Abilene, TX



FIELD SERVICE TICKET 1718 **17332** A

PRES	SURE PUIVIE	ING & WIRELINE					DATE T	ICKET NO	a P.C. Brook Ro	<u></u> _19.75	
DATE OF 9-9.	-18 0	ISTRICT PIUTT	-			OLD WELL	PROD 🗌 INJ			ER IO.:	
	CUSTOMER LO Drilling inc					LEASE Hene WELL NO. 1-2					
ADDRESS		Maria da Arrida de Seria. No Maria de La Composito	$L = \int_{-\infty}^{\infty} \frac{d^2 - 1}{dt} dt$		COUNTY	Lug	91	STATE	hs		
CITY STATE					SERVICE CREW MATTAI Magrow HANSUS						
AUTHORIZED BY	e à l'ha chaire Na trèiseach	en der Stellenstein im der einen sonen einen sonen einen einen sonen einen sonen einen sonen einen sonen einen Stelle sonen einen sonen so	i de la company Novembre de la company	an a	JOB TYPE:	2.1	12 Plus	TU Aba	n n Dva	ens. 161 Santas	
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				andre de National		r Sergeore Subde C	MILES FROM S	TATION TO	WELL 1C	20	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered). The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:_

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CP 103 GO/400 PDZ Sxi 240 Z1880 CC 102 Celloir/Inre II, GI Z251 CF 153 Wooder or gluy 878 C4 III III E 100 P.M. miles Miles Miles III E 100 P.M. miles Miles Miles III E 100 P.M. miles Miles Miles III IIII E 101 Item view Exercise Miles IIII IIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ITEM/PRICE REF. NO.	MATERIAL, EQUIPM	ENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUN	Т
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TREATMENT REPORT

Customer			<u> </u>	NI								
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Casing Size	Tubing Si	ze Shots/I	Ft		Acid	240	51, 60	UJ PS	ATE	PRESS	ISIP	
Depth	Depth	From	То		Pre Pa	ad 4%	311	Max			5 Min.	
Volume	Volume	From	То		Pad	.25	PIS S	eMiho / l u	Au		10 Min.	
Max Press	Max Pres	s From	То		Frac			Avg			15 Min.	
Well Connecti	on Annulus V	/ol. From	То					HHP Used			Annulus Pre	essure
Plug Depth	Packer De	epth From	То		Flush			Gas Volum	ie		Total Load	
Customer Rep	oresentative	RUCK	•	Station	Manag	er We	stermn	t-12	Treate	r MA	7547	
Service Units	83353		77696		79		19959					
Driver Names	m ATTA		mes.	An			HAN	lsur				
Time	Casing Pressure ر	Tubing Pressure	Bbls. Pum	ped	Ra	ite				Service Log		
4:15							On	Loc ATI	/		ry me	tring
		(-		155	Plu	5 C	2352	
5:05	250		20		5		puni		, 661		,	
5:11	201)	/	12	7	5		min	50	SUS		40 PUT	2
5:14	100	— (—	5		<u> </u>		Pump			WArer		
5:18	50		18		4.5	`	Pum	<u>v</u>		Myn	1270	
6.23			12				P 0	200	Plu		1375	
	200		10		5		Pump			NATA		
6:25	175		25		<u>~</u> ~		Mix	100			HO POZ	
6:31	<u> </u>				5	· · · · · · · · · · · · · · · · · · ·	Pump			WAM		<u> </u>
6:37	qυ		6		5		FUMP	6	661	MUD	6.5	
7:30	100				5			<u>ug 3</u>		300		···· · · · · · · · · · · · · · · · · ·
$\frac{1}{2}$	100		5	7	5		Pump			n Are-		· · · · · · · · · · · · · · · · · · ·
<u>ילי.31</u> אז:ד	50	\neg	1	<u>/ </u>	 ح		Pump	50	561		IU AUZ	
<u>· · J (</u>		/	/				PI	<u>(</u> 43 4	<u>, 6 (</u> @		hal to: 1	
8:30			3							10	W. Wooden 10 PUZ	<u> </u>
0-70					· · · · · · · · · · · · · · · · · · ·			10 5 70				<u> </u>
8:40			7					RATH		· · ·		<u> </u>
										MALIN	TLAN	a Voli
								m	i'he	MG 1	, Than An	
								mik	. +	505	4	
10244	NE Hiw	ay 61 • F	P.O. Box	8613•	Prat	i, KS 6	7124-861				ax (620) 67	2-5383
-						建成 化						ing, Inc. 620-672-3656

EN PRESS	JERGY IURE PUMF	SIC P. Pra SERVICES Ph PING & WIRELINE	$\frac{\int \int f'}{244 \text{ NE Hy}}$ 244 NE Hy D. Box 861 att, Kansas one 620-67 $Z - \int G$	3 s 67124 72-1201	30		FIELD SER 1718 1 Date ticket N	7052	A		
DATE OF 8/28/2	JOB 8/28/2018 DISTRICT Prarties						NEW → OLD □ PROD □ INJ □ WDW □ CUSTOMER WELL WELL ORDER NO.:				
CUSTOMER LD Prilling, Inc					LEASE <i>Ilene</i> Well NO. /-2					0.1-2	
ADDRESS		~ /			COUNTY	-099	n STAT	TE KS			
CITY		STATE			SERVICE CREW DErin, Josh, Dr. 82						
AUTHORIZED BY					JOB TYPE:	24	21 85/8 SULF.	°S 4			
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQL	JIPMENT#	HRS	TRUCK CALLED	SPATE S/28	ز 🕅		
14843	1/2 1/2		-				ARRIVED AT JOB	8/28		7.148	
13168	12						START OPERATION	8122	28	145	
							FINISH OPERATION	8/28	89	215-	
					•		RELEASED	8/28	畿/		
		,,					MILES FROM STATION	TO WELL	190		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered). The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: /h/(1

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOU	٨T
CP103	60/40 PO2	SK	225		2,700	00
CC102	Ceiloficke	Lb	56		207	20
C.C.109	Csicium Chlorine	46	582		611	10
E100	Unit milesse Charse- Pickups, Smell Versa ca	mi	100		450	00
Б101	HEGUY EGUIDMENT MILESSE	m.	200		11500	æ
B113	Hequy Equipment Milesse Proposit Sna Buik Delivery Chares Frank, Depth Charse 10-500	etan	970		2,425	æ
CE200	Deprh Cherse; O-500	the	1		11000	40
CE240	Blenzins & mixing Service Charge	SIC	225		315	25
8003	Blenzins & mixins Service Charse Service Supervisor, First Shis on Lac.	Eg	1		175	as
	,					
						_
				· · · ·		
						_
			_			
CHE	MICAL / ACID DATA:			SUB TOTAL	9,383	30
	SERVICE & EQUI	PMENT	%TA	X ON \$		
	MATERIALS		%TA	X ON \$		
			Disa	CONRY TOTAL	\$ 790	81
			*	JUL	1123	P/
	\mathcal{O}		<u>^</u>	//		
SERVICE REPRESENTATIV	E Con Finance Ordered by customer and		D BY: /Л	l W.h		

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



TREATMENT REPORT

2uspner		Lease No.						Date Calla La								
Lease \mathcal{J}	1	Well # 1-2						8/28/2018								
Field Order	ž s	tation)	Pr9+	+ 1155		Casing				-SIE Depth 261		County LOSSA)	State CS	
Type Job	24	218	5-518	- Su	151	lacr		-	Fo	rmation	TD-2	61	Legal D	escription	2-145-320	
PIPE DATA PERFORATIN						NG DATA FLU			USED			TREATMENT RESUME				
CassingSilze	Sind Size Tubing Size		Shots/	Ft			Acid	Acid			RATE PRESS ISIP			ISIP		
Depth 24			From		То		Prel	Pre Pad			Мах			5 Min.		
Volume//		ne	From		То		Pad	Pad		Min				10 Min.		
Max Press		Max Press		From		То		Frac		Avg				15 Min.		
Well Connec				From		То					HHP Used		Annulı		Pressure	
Plug Depth		Packer Depth		From		То		Flush WSter			Gas Volume			Total Load		
Customer Re		<u></u>		211500		Statio	n Mana	gerJus	t,n	Wes,	PIMON	Treater	Darin	Frsm	IKIA	
Service Units Driver		······		1984		1996	0 10	3765				ļ				
Names		DSrin JUSH JUSH Casing Tubing		n 12,52		2 2	0,52				l					
Time	Pressu	ure Pressure Bbls. P		. Pun	Pumped		late	ļ	Service Log							
7! urpm									ont		10/ 60/10 POZ 3%00,114 CF					
									225510/60			140 3	P02 3	10 ac, 1.	4 CF	
	1								14	14,8 pps, 1,21, Venby S. 18 WSKE					<u>m</u>	
	1															
s!uspn	200	200		3				5	D.	Puno Pili in						
Juics pr		200		4				<u>ן</u> ג	101	YUMP 36bs Wake						
		200		15		_		<u>/</u> 3	Mix 225 SK Cemena Pispisce Isbbis Wgber							
G!ISPM								· ·	Shut in				,			
<u>_</u>		·								1101						
									Co	Cement di			Circular Ho Cellar			
									Job complete/Dar.			in & Crew				
										Job Complex/Darin & Crew Thank Youll,						
											•					
					·											

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