KOLAR Document ID: 1439076

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:	SecTwpS. R East West
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.xxxxx)
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	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used?
Cathodic Other (Core, Expl., etc.):	
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: 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)
Commingled Permit #:	Chloride content:ppm Fluid volume:bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Ecodition of hald disposal in riddied choice.
GSW Permit #:	Operator Name:
_	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R
Recompletion Date  Recompletion 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 Approved by: Date:

KOLAR Document ID: 1439076

#### 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	Hartman Oil Co., Inc.				
Well Name	SANDERS 2				
Doc ID	1439076				

#### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	23	287	Common	3%cc, 2% gel
Production	7.875	5.5	15.5	4400	class A	3%cc, 2% gel



Company: Hartman Oil
Company, Inc.

Operation:
Uploading recovery & pressures

Lease: Sanders #2

County: HARPER State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 4

Elevation: 1589 EGL

Field Name: Duquoin Townsite

SEC: 4 TWN: 31S RNG: 7W

Pool: Infield Job Number: 294

DATE
December
19
2018

DST #1 Formation: Mississippian

Test Interval: 4336 -

Total Depth: 4348'

4348'

Time On: 14:35 12/19 Ti

Time Off: 00:21 12/20

Time On Bottom: 16:22 12/19 Time Off Bottom: 19:52 12/19

Electronic Volume Estimate: N/A 1st Open Minutes: 45 Current Reading: Gauging Gas" at 45 min Max Reading: Gauging

gas"

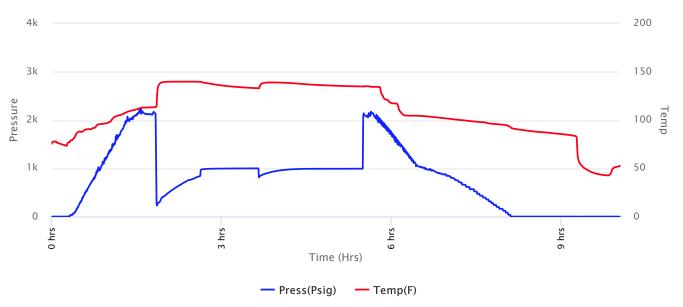
1st Close Minutes: 30 Current Reading: 377.9" at 30 min Max Reading: 377.9"

<u>2nd Open</u> Minutes: 45 Current Reading: auging Gas" at 45 mi

Gauging Gas" at 45 min Max Reading: Gauging 2nd Close Minutes: 60 Current Reading: 158.6" at 60 min Max Reading: 158.6"

Has"

Inside Recorder





**Company: Hartman Oil** Company, Inc.

Operation: Uploading recovery & pressures

Lease: Sanders #2

SEC: 4 TWN: 31S RNG: 7W

County: HARPER State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 4

Elevation: 1589 EGL

Field Name: Duquoin Townsite

Pool: Infield Job Number: 294

<b>DATE</b>
December
19
2018

**DST #1** Formation: Mississippian

Time On: 14:35 12/19

Test Interval: 4336 -4348'

Total Depth: 4348'

Water %

0

14

89

100

92

Mud %

0 2

4

0

0

Time Off: 00:21 12/20

Time On Bottom: 16:22 12/19 Time Off Bottom: 19:52 12/19

#### Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>
1305	18.57015	G	100	0
420	5.9766	SLMCSLGCSLWCO	5	79
65	0.92495	SLGCSLMCSLOCW	3	4
1530	21.2372267	W	0	0
60	0.2952	SLOCW	0	8

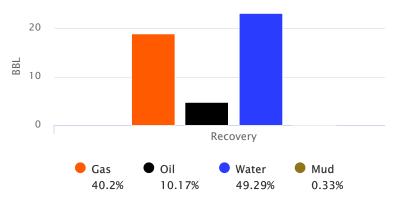
Total Recovered: 3380 ft

Total Barrels Recovered: 47.0041267

**Reversed Out** NO

Initial Hydrostatic Pressure	2112	PSI
Initial Flow	229 to 844	PSI
Initial Closed in Pressure	1000	PSI
Final Flow Pressure	834 to 988	PSI
Final Closed in Pressure	993	PSI
Final Hydrostatic Pressure	2112	PSI
Temperature	140	°F
Pressure Change Initial	0.7	%
Close / Final Close		

#### Recovery at a glance





**Company: Hartman Oil** Company, Inc. Lease: Sanders #2

Operation: Uploading recovery & pressures

SEC: 4 TWN: 31S RNG: 7W County: HARPER

State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 4

Elevation: 1589 EGL

Field Name: Duquoin Townsite

Pool: Infield Job Number: 294

**DATE** December

19

2018

**DST #1** Formation: Test Interval: 4336 -Total Depth: 4348' 4348' Mississippian

Time On: 14:35 12/19 Time Off: 00:21 12/20

Time On Bottom: 16:22 12/19 Time Off Bottom: 19:52 12/19

#### **BUCKET MEASUREMENT:**

1st Open: 7" blow building to BOB 30 sec.

1st Close: BOB BB

2nd Open: BOB instantaneously

2nd Close: BOB BB

**REMARKS:** 

Blow back on initial shut-in hit BOB instantaneously after bled off (20 min.).

The BB on the final shut-in hit BOB 1 1/2 min. after bled off (20 min.).

Gas blew tool sample out

Ph: 5.6

Measured RW: .13 @ 58 degrees °F

RW at Formation Temp: 0.057 @ 140 °F

Chlorides: 150,000 ppm



Operation:

Uploading recovery &

pressures

**Company: Hartman Oil** Company, Inc.

Lease: Sanders #2

SEC: 4 TWN: 31S RNG: 7W

County: HARPER State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 4

Elevation: 1589 EGL

Field Name: Duquoin Townsite

Pool: Infield Job Number: 294

**DATE** December 19 2018

**DST #1** Formation: Test Interval: 4336 -Total Depth: 4348' Mississippian 4348'

Time On: 14:35 12/19 Time Off: 00:21 12/20

Time On Bottom: 16:22 12/19 Time Off Bottom: 19:52 12/19

#### **Down Hole Makeup**

**Heads Up:** 31.86 FT Packer 1: 4330.5 FT

**Drill Pipe:** 4217.36 FT Packer 2: 4336 FT

ID-3 1/2 Top Recorder: 4319.92 FT

Weight Pipe: 0 FT **Bottom Recorder:** 4338 FT

ID-2 7/8

Well Bore Size: 7 7/8 Collars: 117.43 FT

**Surface Choke:** 1" ID-2 1/4

**Bottom Choke:** 5/8" **Test Tool:** 34.07 FT

ID-3 1/2-FH

Jars Safety Joint

**Total Anchor:** 12

**Anchor Makeup** 

1 FT

Packer Sub: 0 FT

Perforations: (top):

4 1/2-FH

**Change Over:** 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 11 FT

4 1/2-FH



Company: Hartman Oil Company, Inc.

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County: HARPER State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 4

Elevation: 1589 EGL

Field Name: Duquoin Townsite

Pool: Infield Job Number: 294

<u>DATE</u> December

**19** 2018

DST #1 Formation: Mississippian

Test Interval: 4336 -

Total Depth: 4348'

4348'

Time On: 14:35 12/19 Time Off: 00:21 12/20

Time On Bottom: 16:22 12/19 Time Off Bottom: 19:52 12/19

#### **Mud Properties**

Mud Type: Chemical Weight: 9.4 Viscosity: 52 Filtrate: 8.8 Chlorides: 5,500 ppm



Company: Hartman Oil Company, Inc. Lease: Sanders #2 SEC: 4 TWN: 31S RNG: 7W County: HARPER State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 4

Elevation: 1589 EGL

Field Name: Duquoin Townsite

Pool: Infield Job Number: 294

Operation:
Uploading recovery & pressures

DATE
December
19
2018

DST #1 Formation: Mississippian

Test Interval: 4336 -

Total Depth: 4348'

4348'

Time On: 14:35 12/19 Time Off: 00:21 12/20

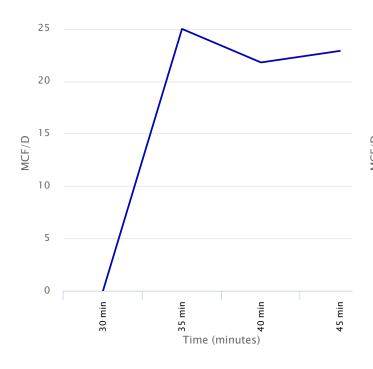
Time On Bottom: 16:22 12/19 Time Off Bottom: 19:52 12/19

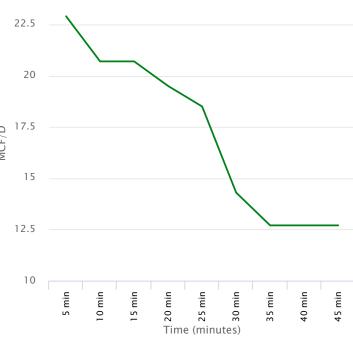
#### **Gas Volume Report**

Remarks: Gas to surface 29 min. into initial flow. Took Gas Sample 5 min. into final flow period.

1st Open						
Time	MCF/D					
30	0.125	Too weak to measure	Weak			
35	0.25	7.0	25.0			
40	0.25	5.5	21.8			
45	0.25	6.0	22.9			

2nd Open						
Time	Orifice	PSI	MCF/D			
5	0.25	6.0	22.9			
10	0.25	5.0	20.7			
15	0.25	5.0	20.7			
20	0.25	4.5	19.5			
25	0.25	4.0	18.5			
30	0.25	2.5	14.3			
35	0.25	2.0	12.7			
40	0.25	2.0	12.7			
45	0.25	2.0	12.7			







PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1005261	1718	12/31/2018
	INVOICE	NUMBER	
	928	78723	

Pratt

(620) 672-1201

B HARTMAN OIL COMPANY INC

! 10500 EAST BERKELEY PARKWAY STE 100

 $\bar{L}$  WICHITA

KS US

67206

O ATTN:

HAWKINS LINDA

LEASE NAME

SANDERS 2

0 LOCATION В

COUNTY

HARPER

S STATE KS

JOB DESCRIPTION Т E

Cement-New Well Casing/Pi

JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE	ORDER NO.		TERMS	DUE DATE
41152071	80779				Net - 30 days	01/30/2019
			QTY	U of M	UNIT PRICE	INVOICE AMOUNT
For Service Date	es: 12/21/2018 to	12/21/2018				
0041152071						
171817656A Ce 5 1/2" PRODUC						_
AA2 Cement		1218 BASIC 180202	175.00	EA	10.20	1,785.00
60/40 POZ		B NEID	30.00		7.20	1
Celloflake		DADIC	44.00		2.22	1
C-41P		20202	83.00	LB	2.40	199.20
Salt	· ·	00002	900.00	LB	0.30	270.00
Gypsum			825.00		0.45	371.25
C-17			83.00	LB	12.00	996.00
1051 LBS Gilson	ite		1.00	LB	422.50	422.50
Cement Gel			52.00	LB	0.15	7.80
Auto Fill Float SI	noe 5 1/2" (Blue)		1.00	EA	216.00	216.
Latch Down Plu	ig & Baffle, 5 1/2" (Blu	ıe)	1.00	EA	240.00	240.
Turbolizer, 5 1/2	" (Blue)		6.00	EA	66.00	396.
Mud Flush			500.00	GAL	0.90	450.00
CLAYMAX KCL	SUBSTITUTE		1.00	EA	21.00	
"Unit Mileage Ch	ng (PU, cars one way)"		50.00	MI	2.70	1
Heavy Equipment			100.00	MI	4.50	450.
	Del. Chgs., per ton m	l	1.00	EA	716.25	716.
Depth Charge; 4			1.00		1,512.00	100
	g Service Charge		205.00	SK	0.84	
Plug Container U	0		1.00		150.00	
"Service Supervi	sor, first 8 hrs on loc.		1.00	EA	105.00	105.
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PLEASE REMIT TO:

SEND OTHER CORRESPONDENCE TO:

PO BOX 841903 DALLAS,TX 75284-1903

BASIC ENERGY SERVICES, LP BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102

SUB TOTAL TAX 8,928.88 314.37

INVOICE TOTAL

9,243.25



DISTRICT

DATE OF JOB 10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

[M-36

# 1718 **17656** A

CUSTOMER ORDER NO.:

DATE TICKET NO.\_\_\_\_\_

OLD PROD INJ WDW

CUSTOMER /-	1 oil con		LEASE Sanders WELL NO. 2						2				
ADDRESS					4 18	COUNTY / J	appe		STATE /	Car	1425	3000	
CITY			STATE			SERVICE CR	EW F	caris, 1	M:Ke, 30	se	- Section	4	
AUTHORIZED BY JOB							JOB TYPE: 5/2 Production Casia 2-42						
EQUIPMENT	#	HRS	EQUIPMENT#	HRS	EQI	JIPMENT#	HRS	TRUCK CAL	LED / 1-1/2	DATE		00	
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	-							RELEASED				10	
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products, and/or sup	pplies inc	rized to e ludes all	TRACT CONDITIONS: (T execute this contract as a of and only those terms a t the written consent of an	an agent of the ound to the ou	customer. A ppearing or	as such, the unders	igned agree of this do	ees and acknow cument. No add	ledges that this cont	erme a	ind/or conditions	shall	
ITEM/PRICE REF. NO.	P A	N	MATERIAL, EQUIPME	NT AND SER	VICES US	SED	UNIT	QUANTITY	UNIT PRICE		\$ AMOUN	Т	
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THE ABOVE MATERIAL AND SERVICE

ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

REPRESENTATIVE

SERVICE



10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

# FIELD SERVICE TICKET

1718 17656 A

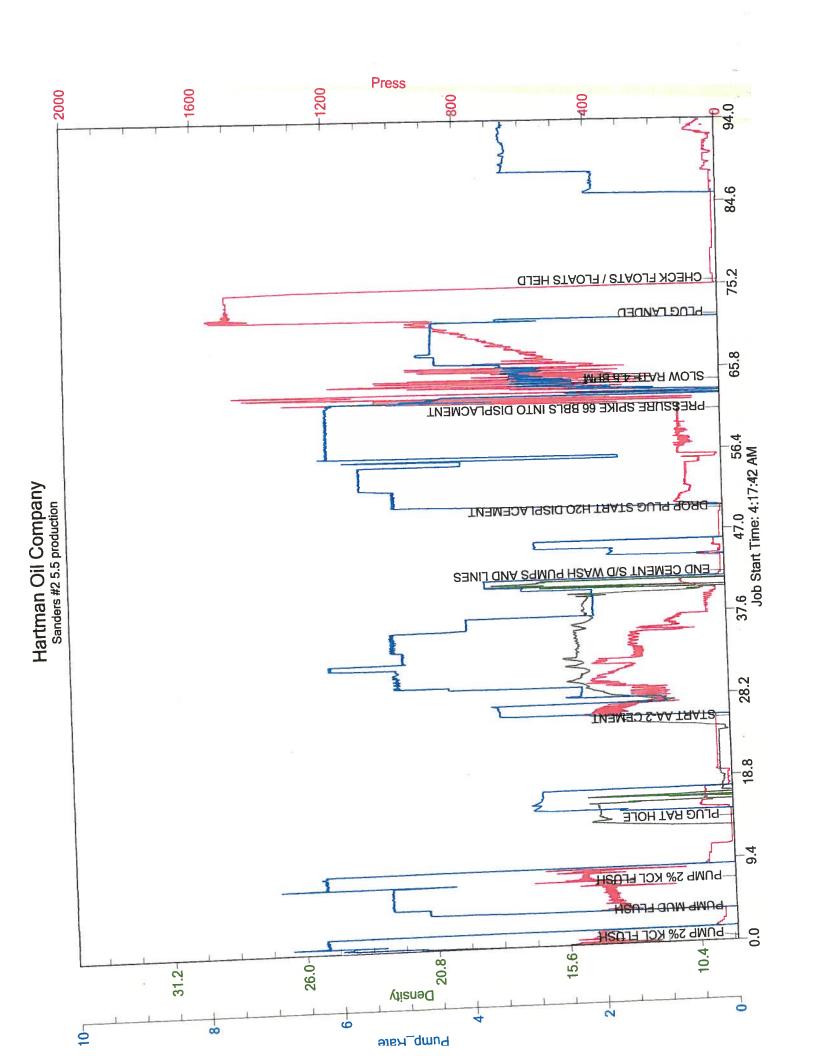
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SERVICE REPRESENTATIVE ORDERED BY CUSTOMER AND RECEIVED BY:



### TREATMENT REPORT

	9,5										
Customer	dartman	oil	Lease N	0.			Date 1) -21-18				
Lease 5 a	nders	6,16	Well #	2		c i	V 0	SAREN TEN			
Field Order #	Station	Prost	Kansas	Casing C	) Depth	41424.1	County /	N PU	State		
Type Job	1/2 Pr	sourt		500	Formation			Legal De	escription		
PIPE	E DATA	PERF	ORATING DATA	FLUID U	JSED		TREA	TMENT I	RESUME		
Casing Size	Tubing Size	Shots/Fi	:	Acid		R	ATE PRE	SS	ISIP		
Depth 40/29	Depth	From	То	Pre Pad		Max			5 Min.		
Volume //S4	Volume	From	То	Pad		Min			10 Min.		
Max Press	Max Press	From	То	Frac		Avg	<u> </u>		15 Min.		
Well Connection	on Annulus Vol	. From	То			HHP Used		,	Annulus Pressure		
Plug Depth	Packer Dep	th From	То	Flush		Gas Volume	•		Total Load		
Customer Rep	presentative	cum	State	ion Manager 305	Howes	termon	Treater	can:	Strondung		
Service Units	78868	77686	0 40	589 17866	}						
Driver Names	Formis	Mike	MIKE 50								
Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate			Servi	ice Log			
2000			,		Acc:	IT ON	Lorn	ion/a	suff + 1/ mechin		
2036					Pia	IDPO	W.Dtm	IN			
2045					Testes	Later	Truck	-Te	00-50 Ph-7		
					Chlaria	40	SUFOR	05 - <	200		
					TOTO	PERAL	1-442	4.12	Shor-411.25		
			,		BAFTI	ed Guidah	or - 5T-	.l p:	d Note / Basket		
					Turbo	sizes5	5TS-	2,4	68/012		
0206	400				Drop	Ball/	3/01/50	7			
0315	400		10	6	Pump	2%10	LL.500	NET	J. J. Janes		
0317	400		12	6	Pine	, mud	Flush				
0323	480		10	6	Pump	2016 K	CL Spe	105			
0332	60		7	3	Plug R	AT HOLC	-365	5- 1	4001		
0345	400	· :	0	3.5	Start	AAZ	0.15	pplr			
0352	400		23.5	5		X AAZ	- (	-	1 7		
03.57	400		47	5	17557	LALL	Away	0.15	Pph s/pwashpu		
0406	130		0	6					D'splacement		
0419	1400		66	6		U16.51		8/a			
0420			67	4,5	5/011	r) RAY			)		
04127	940		P4	-3	Slow	cloud	Plue	1	muncy still		
0430	1600	_	102.5	3	Land	Plus			/		
04/35		4				Flate	, ,	D	lean Loratio		
	*	lac-	148867	Toc 2912.33	Hoe	7	F TO	( S)	FF 52		







#### Knox City Yard #1711 P.O. Box 115 Knox City, Texas 79529 Office: 940-658-1366

### PRESSURE PUMPING

Cuetama	Hartman Oi	I Co				Report	200		67/0 A 183/3		
					Cement Pump No.:			Cementer :	sell		
Address:						1711-09122A		Bulk Truck: 74564			
City, State, Zip:	_				Job Type:						
Service District:	1711				Well Type:	Oil					
Lease Name.:	Sanders				Well No:	2	County:	Harper	State:	KS	
Size of Hole		12 1/4			Hole Cap.		Packer		Casing		
Size Casing	8 5/8	Casing Wt.		24	Casing Cap.	0.0636	Retainer		TD		
Size Tubing		Tubing Wt.		-	Tubing Cap.		Perfs		DV Tool		
	# of sacks	PPG	Yeilo	1	Water Req.	Class	Additives		DV 1001		
			1000		Trade Iteq.	Oldaa	Additives				
Stage 1 Lead	225	14.8	1.	21	5.18	C 60/40	3% CALCIUM CHLORIDE, .25# CELLOFLAKE				
Tail						1-101					
Stage 2 Lead											
Tail									*		
Time	Rate Volume				Pressui	o/DCI\	Deseri	tion of O====*	n on -1 & 4 · ·	nio lo	
THIO	(BPM)	(BBLS)	T	С	Tubing	e(PSI) Casing	Descui	otion of Operatio	n and Mate	riais	
	(01 101)	(BBEO)	†	-	Tability	Casing		CALTEVI	ACCTINO		
								SAFTEY I RIG			
	5	10			120			PUMF			
	5	48			150			PUMP C			
	4	17			180			FLU			
-								WAS			
								RIG D			
			L.,								
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					ſ	Basic Represe		Justin Trussell			
ustomer Signature:						Customer Rep			Corey Stucky		
						Date of Service	e:		12/14/2018		