KOLAR Document ID: 1440483

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.xxxxxx) (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	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? Yes No
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: 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)
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 #:	Location of haid disposal in hadica offsite.
GSW Permit #:	Operator Name:
_	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West
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: 1440483

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			
I lop Bottom		ype of Cement # Sacks Used		d Type and 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.		n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	GARY 1-5
Doc ID	1440483

Tops

Name	Тор	Datum
ANHYDRITE	2087	+642
BASE ANHYDRITE	2118	+611
STOTLER	3546	-817
HEEBNER	3969	-1240
LANSING	4008	-1279
STARK	4274	-1545
MARMATON	4382	-1653
FORK SCOTT	4528	-1799
CHEROKEE	4552	-1823
MISSISSIPPI	4624	-1895

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	GARY 1-5
Doc ID	1440483

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	245	60/40 POZMIX	3%CC,1/4 #celloflake



Lease: Gary #1-5

SEC: 5 TWN: 19S RNG: 27W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2725 EGL Field Name: N/A Pool: Infield Job Number: 292

Operation: Uploading recovery & pressures

> **DATE** January

> > 01 2019

DST #1 Formation: LKC 200' Test Interval: 4274 -Total Depth: 4296' 4296' zone

Time On: 09:48 01/01 Time Off: 18:53 01/01

Time On Bottom: 13:07 01/01 Time Off Bottom: 16:07 01/01

Electronic Volume Estimate: 408'

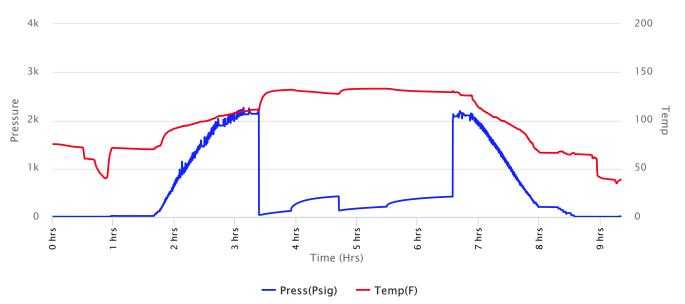
1st Open Minutes: 30 **Current Reading:** 18.6" at 30 min Max Reading: 18.6"

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

2nd Open Minutes: 45 **Current Reading:** 17.3" at 45 min Max Reading: 17.3"

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

Inside Recorder





Lease: Gary #1-5

SEC: 5 TWN: 19S RNG: 27W County: LANE

State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2725 EGL Field Name: N/A Pool: Infield Job Number: 292

Operation: Uploading recovery & pressures

DATE	
January	
01	
2019	

Total Depth: 4296' DST #1 Formation: LKC 200' Test Interval: 4274 -4296' zone

Time On: 09:48 01/01 Time Off: 18:53 01/01

Time On Bottom: 13:07 01/01 Time Off Bottom: 16:07 01/01

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	<u>Mud %</u>
82	0.84132	HMCW	0	0	68	32
124	1.27224	SLMCW	0	0	95	5
248	2.54448	SLMCW	0	0	99	1

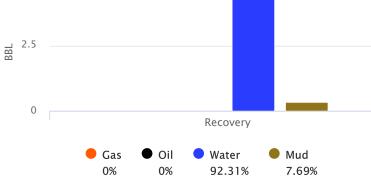
Total Recovered: 454 ft

Total Barrels Recovered: 4.65804

Reversed Out
NO

Initial Hydrostatic Pressure	2137	PSI
Initial Flow	43 to 125	PSI
Initial Closed in Pressure	427	PSI
Final Flow Pressure	135 to 212	PSI
Final Closed in Pressure	422	PSI
Final Hydrostatic Pressure	2129	PSI
Temperature	132	°F
Pressure Change Initial	1.1	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 0



Lease: Gary #1-5

SEC: 5 TWN: 19S RNG: 27W County: LANE State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2725 EGL Field Name: N/A Pool: Infield Job Number: 292

Operation: Uploading recovery & pressures

> **DATE** January 01 2019

Total Depth: 4296' DST #1 Formation: LKC 200' Test Interval: 4274 -4296' zone

Time On: 09:48 01/01 Time Off: 18:53 01/01

Time On Bottom: 13:07 01/01 Time Off Bottom: 16:07 01/01

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: B.o.B in 9 min. 57 sec.

1st Close: Weak surface return started at 4 min. 32 sec. Built to 1/8"

2nd Open: B.o.B in 16 min. 27 sec.

2nd Close: No Return

REMARKS:

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

Gravity: 3.6 @ 60 °F

Ph: 0

Measured RW: .3 @ 25 degrees °F

RW at Formation Temp: 0.069 @ 132 °F

Chlorides: 35000 ppm



Lease: Gary #1-5

SEC: 5 TWN: 19S RNG: 27W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2725 EGL Field Name: N/A Pool: Infield Job Number: 292



DATE January

> 01 2019

Total Depth: 4296' **DST #1** Formation: LKC 200' Test Interval: 4274 -

4296' zone

Time On: 09:48 01/01 Time Off: 18:53 01/01

Time On Bottom: 13:07 01/01 Time Off Bottom: 16:07 01/01

Down Hole Makeup

Heads Up: 33.77 FT Packer 1: 4269 FT

Drill Pipe: 4275.2 FT Packer 2: 4274 FT

ID-3 1/4 Top Recorder: 4258.42 FT

Weight Pipe: 0 FT **Bottom Recorder:** 1 FT

ID-2 7/8 Well Bore Size: 7 7/8

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

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

ID-3 1/2-FH

0 FT

1 FT

21 FT

Jars

Safety Joint

Total Anchor: 22

Anchor Makeup

Packer Sub: Perforations: (top): 0 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/4

Change Over: 0 FT

4 1/2-FH

Perforations: (below):



Lease: Gary #1-5

SEC: 5 TWN: 19S RNG: 27W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2725 EGL Field Name: N/A Pool: Infield Job Number: 292



DATE
January
01
2019

DST #1 Formation: LKC 200' Test Interval: 4274 - Total Depth: 4296'

zone 4296'

Time On: 09:48 01/01 Time Off: 18:53 01/01

Time On Bottom: 13:07 01/01 Time Off Bottom: 16:07 01/01

Mud Properties

Mud Type: Chem Weight: 9.5 Viscosity: 57 Filtrate: 9.6 Chlorides: 5600 ppm



Lease: Gary #1-5

SEC: 5 TWN: 19S RNG: 27W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2725 EGL Field Name: Wildcat

Pool: Infield Job Number: 292

Operation: Uploading recovery & pressures

> **DATE** January 03 2019

DST #2 Formation: FT. Scott / Cherokee Snd.

Test Interval: 4520 -

Total Depth: 4623'

4623'

Time On: 04:18 01/03 Time Off: 11:25 01/03

Time On Bottom: 06:47 01/03 Time Off Bottom: 08:47 01/03

Electronic Volume Estimate:

23'

1st Open Minutes: 30 **Current Reading:** 1.75" at 30 min

Max Reading: 1.75"

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

Max Reading: 0"

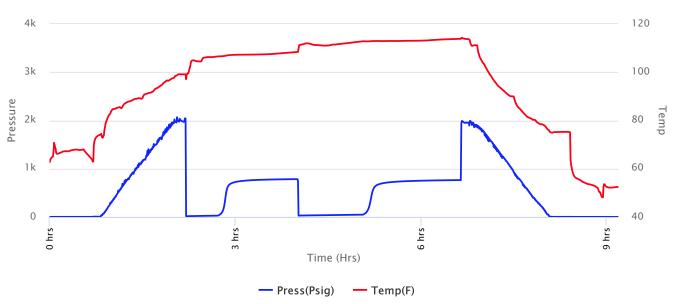
2nd Open Minutes: 30 **Current Reading:** .1" at 30 min

Max Reading: .1"

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

Max Reading: 0"

Inside Recorder





Lease: Gary #1-5

Operation: Uploading recovery & pressures

SEC: 5 TWN: 19S RNG: 27W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2725 EGL Field Name: Wildcat

Pool: Infield Job Number: 292

DATE January 03 2019

Total Depth: 4623' DST #2 Formation: FT. Scott Test Interval: 4520 -/ Cherokee Snd. 4623'

> Time On: 04:18 01/03 Time Off: 11:25 01/03

Time On Bottom: 06:47 01/03 Time Off Bottom: 08:47 01/03

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	<u>Mud %</u>
1	0.01026	0	0	100	0	0
19	0.19494	SLOCM	0	2	0	98

Total Recovered: 20 ft

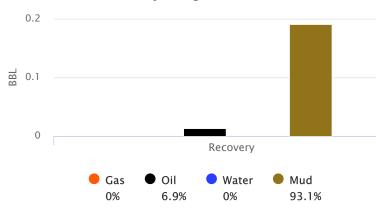
Total Barrels Recovered: 0.2052

Reversed Out
NO

Initial Hydrostatic Pressure	2001	PSI
Initial Flow	17 to 27	PSI
Initial Closed in Pressure	784	PSI
Final Flow Pressure	29 to 47	PSI
Final Closed in Pressure	764	PSI
Final Hydrostatic Pressure	1977	PSI
Temperature	114	°F
Pressure Change Initial	2.5	%
Olever / Fire al Olever		

Close / Final Close





GIP cubic foot volume: 0



Lease: Gary #1-5

SEC: 5 TWN: 19S RNG: 27W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2725 EGL Field Name: Wildcat

Pool: Infield Job Number: 292

Operation: Uploading recovery & pressures

> **DATE** January 03 2019

Total Depth: 4623' DST #2 Formation: FT. Scott Test Interval: 4520 -/ Cherokee Snd. 4623'

Time On: 04:18 01/03 Time Off: 11:25 01/03

Time On Bottom: 06:47 01/03 Time Off Bottom: 08:47 01/03

BUCKET MEASUREMENT:

Diesel in Bucket

1st Open: 1/4" Blow built to 1 3/4"

1st Close: No Return

2nd Open: Surface blow started at 3 min. Did not build or die.

2nd Close: No Return

REMARKS:

Tool Sample: 0% Gas 5% Oil 0% Water 95% Mud



Lease: Gary #1-5

SEC: 5 TWN: 19S RNG: 27W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2725 EGL Field Name: Wildcat

Pool: Infield Job Number: 292

Operation: Uploading recovery & pressures

> **DATE** January

> > 03 2019

DST #2 Formation: FT. Scott / Cherokee Snd.

Test Interval: 4520 -

Total Depth: 4623'

4623'

Time On: 04:18 01/03 Time Off: 11:25 01/03

Time On Bottom: 06:47 01/03 Time Off Bottom: 08:47 01/03

Down Hole Makeup

Heads Up: 6.699999999997 FT Packer 1: 4515 FT

Drill Pipe: 4494.13 FT Packer 2: 4520 FT

ID-3 1/4

0 FT

Top Recorder: 4504.42 FT

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

ID-2 7/8 Well Bore Size: 7 7/8

Surface Choke: 1" ID-2 1/4

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

ID-3 1/2-FH

Collars:

Jars

Safety Joint

Total Anchor: 103

Anchor Makeup

1 FT

Perforations: (top): 3 FT

Packer Sub:

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 94 FT

ID-3 1/4

Change Over: 1 FT

Perforations: (below): 3 FT

4 1/2-FH



Lease: Gary #1-5

SEC: 5 TWN: 19S RNG: 27W

County: LANE State: Kansas

Drilling Contractor: L. D. Drilling, Inc -

Rig 1

Elevation: 2725 EGL Field Name: Wildcat

Pool: Infield Job Number: 292

Operation:
Uploading recovery &
pressures

DATE January

03 2019

DST #2 Formation: FT. Scott / Cherokee Snd.

Test Interval: 4520 -

Total Depth: 4623'

4623'

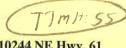
Time On: 04:18 01/03 Time Off: 11:25 01/03

Time On Bottom: 06:47 01/03 Time Off Bottom: 08:47 01/03

Mud Properties

Mud Type: Chem Weight: 9.4 Viscosity: 59 Filtrate: 8.8 Chlorides: 5300 ppm





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

FIELD SERVICE TICKET

1718 17558 A

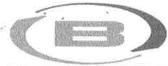
PRESSURE DUMBING & WIDELINE

	TTEGO	OHL PUIV	5-	19-	27			DATE	TICKET NO.					
DATE OF /	1/20	119	DISTRICT Prs++	iks		NEW WELL	WELL	PROD IN	J MDM		JSTOMER RDER NO.;			
CUSTOMER	LD	Dr	lling			LEASE G	ry				WELL NO	0.1-5		
ADDRESS						COUNTY Lane STATE KS								
CITY			STATE		V	SERVICE CR	EW D	Scin. B	ledd, Cle	rsne	e De	£		
AUTHORIZED I	ВҮ					JOB TYPE:	24	1/PT	7		,	6		
	T#	HRS	EQUIPMENT#	HRS	EQU	IIPMENT#	HRS	TRUCK CAL	LED	PATI	AM	TIME		
	-							ARRIVED A	T JOB	1/4	AM /	0.45		
11110		1200		-				START OPE	RATION	1/4	AM /	2.00		
1								FINISH OPE		1/4	AM 3	15		
								RELEASED		1/4	AM 4	'co		
	CUSTOMER DOLLING ADDRESS CITY STATA AUTHORIZED BY EQUIPMENT# HRS EQUIF 19843 394 19918 1/2 CONTRACT COND The undersigned is authorized to execute this coproducts, and/or supplies includes all of and only the become a part of this contract without the written contract witho							MILES FROM	M STATION TO	WELL	144			
products, and/or subecome a part of the	applies in	cludes all	of and only those terms and o	conditions a	opearing on	the front and back	of this do	cument. No addi	tional or substitute	terms a	and/or conditi	ons sha		
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E 113	PRICE REF. NO. MATERIAL, EQUIPMENT AND SE OS COLOFISKE OS CSICIUM Chloride 153 Wooden Cement Plug 8 Unit milesse Chrise - Pickups, Heguy Equipment Miless 13 Frodesh 9nd Bulk Delivery 203 Deoth Chrise; 2,001 - 3,0		lesse			mi	100		-	1,50c				
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TREATMENT REPORT

Customer	D Del	lı S	c		Т	Lease No						Date	1	1,.	1 -	10		
Lease G	Cry.		2		1	Well #	-5						1	14,	120	17		
Field Order		n 1	769+	d, Ics		-		Casing		Depth	1	County	15	ne		St	ate KS	
Type Job				- 1 /- 3					Foi	mation				Legal D	Description	5-	19-27	
PIF	PE DATA		PER	FORAT	ING	B DATA		FLUID	USED			Т	REA		RESUM			
Casing Size	Tubing S	ize	Shots/f	-t			Acid					RATE	PRE		ISIP		_	
47 12			From		To		Pre	Pad			Max				5 Min.			
Volume	Volume						Pad				Min	#			10 Min.	_		
Max Press	Max Pres	ss	From		To T-		Frac	3			Avg				15 Min.			
Depth 2100 Depth Volume Volume Max Press Well Connection Annulus Vol. Plug Depth Customer Representative Service Units Oriver James Casing Time Pressure Pressure Pressure		From		To To					HHP Use	ed			sure					
Plug Depth	Packer D	epth	From		To To		Flus	h W Gie			Gas Volu	ime		Total Load				
Customer Re	presentative	-			10	Station	l n Mana	iger T	, MUZ		Treate		eater Denn France			_		
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PRESSURE PUMPING

Knox City #1711 P.O. Box 115 KNOX City Tx 79529 Office: 940.658.1366

	Field Receipt						
Customer:	LD Drilling Exploration	Pump No.:	14982		Cementer	Justin Truss	ieli
Address:		Ticket #:		A	Bulk TRK No.:	74564	
City, State, Zip:		Job Type:					
Service District:	1711	Well Type:		Oil	Total Man Hrs	F	
Lease Name.:		Well No:	£ 1	County:		State:	
Product	Description	Unit of	5-Jan Quantity	last .	Lane	Item	KS Net Amount
Code		Measure		Pricefunit	Amount	Discount	
cct103	60/40 POZ	sk	190	\$12.00	\$2,280.00	38.00%	\$1,413.60
cc102 cc109	Celloflake	lb	48	\$3.70	\$177.60	38.00%	\$110.11
ce200	Calcium Chloride Depth Charge; 0-500'	lb	492	\$1.05	\$516.60	38.00%	\$320.29
e101	Heavy Equipment Mileage	4hrs	1	\$1,000.00	\$1,000.00	38.00%	\$620.00
e100	Unit Mileage Charge-Pickups, Small Vans & Cars (on	mi	200	\$7.50	\$1,500.00	38.00%	\$930.00
e113	Proppant and Bulk Delivery Charges, per ton mile		100	\$4.50	\$450.00	38.00%	\$279.00
ce240	Blending & Mixing Service Charge	tm	820	\$2.50	\$2,050.00	38.00%	\$1,271.00
s003	Service Supervisor, first 8 hrs on loc.	sk	190	\$1.40	\$266.00	38.00%	\$164.92
ce504	Plug Container Utilization Charge	ea	1	\$175.00	\$175.00	38.00%	\$108.50
C6304	- ring Container Offization Charge	job	1	\$250.00	\$250.00	38.00%	\$155.00
		-					
		-		Gross	\$8,665.20	Net	\$5,372.42
ERMS: Cash in advance unless B	asic Energy Services has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice	Customer Repre	sontative:	Ric	κ Λ. Λ ·	fbtal	\$5,372.42
	date of invoice. Past due accounts may pay interest on the balance past due at the rate of 1 1/3/6 par noith or the or federal less if such less limit interest to a tesser amount. In the event it is necessary to employ an agency and/or				Malmil	The state of the s	₩0,07 Z.4Z
period e antonne mou dea bacolliga	account, Customer hereby agrees to pay all fees directly or indirectly incurred for such robletion. In the event that idelinquent, BES has the right to revoke any and all discounts previously applied in arriving at net invoice price.			ustin Trussell	(My (yes	*1	
on revocation, the full trivoice price w	Africult discount will become immediately due and owing and subject to collection.		f Service:	DED CESTAGE WORTH WEEK	December 18,		
x		INDEMNIFICATION OBLIGATION SIGN THIS ORDER.	ONS) LISTED HERE (PER SERVICE INSTRUCTION OR IN THE CUSTOMER CONTR	S IN ANGUNDANCE WITH TER ACT FORM AND REPRESENT	MS AND CONDITIONS (THAT I HAVE AUTHORIT	Y TO ACCEPT AND
	CUSTOMER AUTHORIZED AGENT						
- 1	Customer Comments or Concerns:						
	The state of the s						



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

PRESSURE PUMPING

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Customer:		Exploration			Cement Pump No.:				Justin Trussell			
Address:	0				Ticket #:	1711-09123 <i>A</i>	1	Bulk Truck:	74564			
City, State, Zip:	0				Job Type:	Surface						
Service District:	1711				Well Type:	Oil						
Lease Name.:	Gary				Well No:	43105	County	Lane	State: KS			
Size of Hole		12 1/4		-	Hole Cap.		Packer		Casing			
Size Casing	B 5/8	Casing Wt.	Т	24	Casing Cap.	0.0636	Retaine		TD			
Size Tubing	0 0,0	Tubing Wt.	\vdash	_	Tubing Cap.	0.0030	-					
			<u> </u>			-	Perfs	J	DV Tool			
	# of sacks	PPG	Yeil	a	Water Req.	Class	Additives					
Stage 1 Lead	190	14.8	1	.21	5.18	60/40	3% CALCIUM CHLORIDE, .25# CELLOFLAKE					
Tail												
Stage 2 Lead												
Tall												
Time	Rate	Volume	-		Pressur	e(PSI)	Descri	ption of Operation	n and Materials			
	(BPM)	(BBLS)	T	С	Tubing	Casing	1 200011	F opolation				
							1	SAFTEY N	MEETING			
								RIG				
	3.5	10			100			PUMP				
	4	40			100			PUMP C	EMENT			
	4	15,5			150				FLUSH WASH UP			
								WASI	H UP			
								RIG D	OWN			
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				\neg								
					E	Basic Represe	ntative:	Justin Trussell				
stomer Signature:						Customer Rep			Rick			
						Date of Service			12/18/2018	_		

KIM B. SHOEMAKER CONSULTING GEOLOGIST 316-634-9709 * WCHITALKS GEOLOGIST'S REPORT API: 15-101-22618 DRULING THE AND SAMPLE LOG ELEVATIONS COMPANY L. D. DRILLING, INC. * I-5 GARY LEASE 2729 WILDGAT RELD ___ OCATION 1650 FSL 2970 FEL 2088 + 641 2724 SEC 5 THEP 19'S ROW 27W Measurements Ara Ali E LANE KANSAS 2729 B CASING L.D. DRILLING, INC. 85/8"0 245 5740 12-17-18 COMP 1-4-19 Bit 137 200 Cu S See See Adjoint Color and Co ELECTRICAL SURVEYS 4741 4740 DUAL IND., DENS-N. MICRO TYPE WID CHEMICAL 3500 3600 4740 Spiritures programment to the state of the s 3400 0 4740 3600 7 4740 3800 70 4740 KIN B. SHOEMAKER SAMPLES LCE: TRANSPORT TOPS . 4 4 2087+ 642 2088+ 641 ANHYDRITE 2120 + 609 B/ANH. 2118+ 611 3546 - 817 3548 - 819 STOTLER 3969 - 1240 3971 - 1242 HEEBNER LANSING 4009 - 1280 4008-1279 4279 -1550 STARK 4274-1545 4383-1654 MARMATON 4382 - 1653 4527-1798 FORT SCOTT 4528 - 1799 4552-1823 4550-1821 CHEROKEE 4624 - 1895 MISSISSIPPI 4624-1895

