#### KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1376402

Form ACO-1 November 2016 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 Dorth / 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 #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (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:
	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)	
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 #:	
SWD         Permit #           EOR         Permit #:	Location of fluid disposal if hauled offsite:
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Reached TD Recompletion Date of 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 III Approved by: Date:								

	Page Two	1376402
Operator Name:	_ Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTDUCTIONS: Chaw important tang of formations panetrated De	tail all aaraa Dapart all final	annian of drill atoms toots siving interval tootad, time tool

**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 She	pets)	Y	es 🗌 No		L	.og	Formatio	n (Top), Deptl	n and Datum	Sample	
Samples Sent to Geolog		□ Y	es 🗌 No		Nam	е			Тор	Datum	
TCores aken Electric Log Run Geologist Report / List All E. Logs Run:		Y	es No es No es No								
		Repo	CASING	RECORD	Ne .ce, inte		Used e, productio	on, etc.			
Purpose of String	Size Hole Drilled	Siz	ze Casing t (In O.D.)	Weight Lbs. / Ft		Se	etting epth	Type of Cement	# Sacks Used	Type and Percent Additives	
			ADDITIONAL		/ SQL	JEEZE F	RECORD				
Purpose: Perforate	Depth Top Bottom	Туре	e of Cement	# Sacks Us				Type a	nd Percent Additives		
Penorate Protect Casing Plug Back TD											
Plug Off Zone											
<ol> <li>Did you perform a hydrau</li> <li>Does the volume of the to</li> <li>Was the hydraulic fractur</li> </ol>	otal base fluid of the h	nydraulic fra	acturing treatment		-		Yes Yes Yes	No (If No	, skip questions 2 ar , skip question 3) , fill out Page Three		
Date of first Production/Inje Injection:	ection or Resumed Pro	oduction/	Producing Meth	iod:		Gas Lift	0	ther <i>(Explain)</i>			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er	Bb	ols.	Gas-Oil Ratio	Gravity	
			N Open Hole	IETHOD OF C		TION:		minalad	PRODUCTION INTERVAL: Top Bottom		
Vented Sold	Used on Lease t ACO-18.)					ACO-5)		nmingled nit ACO-4)			
	oration Perfora		Bridge Plug Type	Bridge Plug Set At			Acid,		Cementing Squeeze Kind of Material Used)		
TUBING RECORD:	Size:	Set At:		Packer At:							

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	BIGGS 1-36
Doc ID	1376402

Tops

Name	Тор	Datum
ANHYDRITE	2932	+407
BASE ANHYDRITE	2967	+372
STOTLER	3832	-493
HEEBNER	4140	-801
LANSING	4188	-849
BASE KANSAS CITY	4444	-1105
PAWNEE	4559	-1220
FORT SCOTT	4622	-1283
CHEROKEE	4652	-1313
MISSISSIPPI	4802	-1463

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	BIGGS 1-36
Doc ID	1376402

### 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	332	60/40 POZMIX		1/4#CF, 3% CC
Surface	12.25	8.625	25	332	COMMON	150	4%CC



TTMH= 32

### FIELD SERVICE TICKET 1718 16087 A

PRESSU		PING & WIRELINE					DATE TICKET NO	
DATE OF 11-7-20	>17 0	DISTRICT			NEW X		PROD INJ WDW CUSTOMER ORDER NO.:	
CUSTOMER LT	>D	RILLING, IN	C.		LEASE -	LAC	K Biggs WELL NO/-/7	
ADDRESS				COUNTY 7	HOW	AS STATE KS.		
CITY		STATE			SERVICE CREW LESLEY, MATTAL, YOSHI (UB.)			
AUTHORIZED BY					JOB TYPE: (	PNU	)-85/8"S.P. 242	
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQL	JIPMENT#	HRS	TRUCK CALLED 11- 6-94 PM 4:30	
20920	4.5				-		ARRIVED AT JOB S MM (0:00)	
Mud (CD)	4.5						START OPERATION	
							FINISH OPERATION AM 2:00	
							RELEASED AM 2:30	
						·	MILES FROM STATION TO WELL	

10244 NE Hwy. 61 P.O. Box 8613

Pratt, Kansas 67124

Phone 620-672-1201

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.

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICE	S USED	UNIT	QUANTITY		Ξ	\$ AMOUN	г
CP 103	60/40 POZ		SK	300-			3,600	à
CC 102	CELLFLAKE		16	75-	-		277	50
CC 109	CALCIUM CHLORIDE		16	7.74	/		812	70
E 100	PICKUP MILEAGE		NII	100	1		2150	20
EIDL	HEAVY EQUIRMENT MILER	IGE .	NI	200	1		1,500	00
E 113	BULK-DELIVERY CHARGE	1	TM	1290	•		3,225	00
CE 200	DEPTH CHARGE, 0-500		HR	1-4	1		1,000	00
CE 240	BLENDING & MIXING CHARG	E	SK	300	3		4200	20
CE 504	PLUG CONTAINER CHARGE		JOB	1	8	in .	250	00
5003	SERVICE SUPERVISOR	i	EA	1	£		175	00
			_	-				
								-
							11,210	20
							4	1-A
					SUB TO	TAL/	6,440	01
CHE	MICAL / ACID DATA:						4,110	
		SERVICE & EQUIPMI	ENT		X ON \$			
		MATERIALS		%TA)	X ON \$			
					TOT			
				/	Vi	VW		
	AA		-	V				
SERVICE REPRESENTATIV		ATERIAL AND SERVIC	CEIVED	Contraction of the second s	and the state of t	pile		
FIELD SERVICE C	RDER NO.		VELL <sup>(</sup> OV	NER OPERAT	OR CONTRACTOR	ROR	AGENT)	



### TREATMENT REPORT

	DDRI	LING		ease No.				17	7	0	
Lease	AUK	.Sc	gop "	/ell #	1-17	TD	>		- / -	201	
Field Order #	7 Station	PRA-	TT, KS.		Casing	5/8 " Depti	336	County	OMAS	>	ate Ks
Type Job	NW-	85/8	"S.P.			Formation	)		Legal Des	cription 7-85-	34W
PIPI	E DATA	PERF	ORATING	DATA	FLUID	USED		TREA	TMENT R	ESUME	
Casing Size	, Tubing Size	e Shots/F	t Cm	17-	-Acid- 3005K La	0/40Poz		RATE PRE	SS	ISIP	
Depth 332	Depth	From	То		Pre Pad /.	21 CUFT	Max			5 Min.	
Volume 21, /	BBL	From	То		Pad		Min			10 Min.	
Max Press	Max Press	From	То		Frac		Avg			15 Min.	2
Well Connection		l. From	То				HHP Use	ed		Annulus Press	sure
Plug Depth		From	То		Flush 19,8	3 BBL	Gas Volu			Total Load	
Customer Rep	presentative K	ICK		Station	Manager J. L	VESTERM	MAN	Treater k	LESC	Ey	
Service Units	18868	84930	20920	708	97 1980	2				~	
Driver Names	LESLEY	MATTAL		405	HI LIBERT	14)					
Time	Casing Pressure	Tubing Pressure	Bbls. Pum	ped	Rate			Servi	ce Log		
10:00Pm						ONLO	OCATI	ION - SI	AFETU	MEETI	VG
11:457m	- 10 - 10					RUN	BJT:	5,0F85	18 X 2	4#C5G	3 3
2:45AM	5					CSG.	a	OTTOM	-		
1:00 AM						BREAK	CIRC	. W/RIC	7		
1:22AM	100		10		5	1120.	AHEF	1.D	1	~ 1	
1:26Am	200		65		5	MIX	300 5	K5 60/4	HOPOZ (	P14.8	PPG
1:39Am	0		0		. 5	STAR	CT D		EMEN	7	
1:41 Am	200		10		2.f	LIFT	PRI	ESSURE	~		
1:43AM	250	Kode a m. P.	15	1.000	3	SLOU		TE			
1.45Am	300		1908	3	2	CEME	VTCa	DESIR	ED D	EPTH	
-						CIRC	. TH	RU JOR	3		
						CIRC,	20 1	BL TO	PIT		
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### TTM7H=17

# **FIELD SERVICE TICKET**

1718 16088 A

FILUU							DATE TICKET NO.	
DATE OF JOB //- 7- JUIT DISTRICT								IER NO.:
	D	RILLING, INC	¢			AU	K Soge WELI	L NO./-/
ADDRESS		·			COUNTY 7	How	1AS STATE KS.	
CITY		STATE			SERVICE CREW LESLEY, MATTAL, SANTLAGO (UB)			
AUTHORIZED BY	2				JOB TYPE:	CAL	)- 85/8"(TOP OFF)	242
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQL	JIPMENT#	HRS	TRUCK CALLED DATE AM	TIME
209201	-5-	· · · · · · · · · · · · · · · · · · ·					ARRIVED AT JOB	
11000	3						START OPERATION	2.00
	1 1 2 1	the states of the second					FINISH OPERATION	3:30
				-			RELEASED /mm	4:30
							MILES FROM STATION TO WELL	

10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124

Phone 620-672-1201

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SIGNED: (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICE	S USED UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CPIOC	COMMON' CEMENT	SK	150 -		240000
CC 109	CALCIUM CHLORIDE	15	388 -	/	4106 35
E 100	PICKUP MILEAGE	NII	50	8	22500
EIDI	HEAVYERUIPMENT MILEAGE		100	nad	75000
E 113	BUCK DELIVERY CHARGE	TM	1045	3	1.612 50
CE 240	BLENDING SERVICE CHARGE	E SK	150	<u>e</u>	21000
E 311	BOBTAIL PUMPTRUCK CH	ARGE EIR	- 1	t	150 00
5 003	SERVICE SUPERVISOR	EA		1	17500
( 0) V					
				1	
					1 to
СНЕ	EMICAL / ACID DATA:			SUB TOTA	296173
		SERVICE & EQUIPMENT	%TA	X ON \$	
		MATERIALS		X ON \$	
					AL
			1	JUN .	2
SERVICE	E AUGUA LISUL THE ABOVE M ORDERED BY	ATERIAL AND SERVICE CUSTOMER AND RECEIVED	BY:	1. M.	h
FIELD SERVICE C				OR CONTRACTOR	OR AGENT)
CLOUD LITHO - Ahiene, TX	V ×				



## TREATMENT REPORT

Customer	1DD	RILLING		No.			Date /	-1 17.	-7
Lease	LAU	1/	Well #	1-17			11-	7-201	1 *
Field Order	3 Station	PRA	TGKS.	Casing	le " Depth	1	County TF	JOMA5	State 3
Type Job	NID	- /"	B 5/8"S.P.		Formation			Legal Description	- 3400
PIPI	E DATA	PERF	ORATING DAT		JSED		TREA	TMENT RESUM	ΛE
Casing Size (	Tubing Siz	ze Shots/F	t CMT-	-Acid NEE	T W/2%	le	RATE PRE	SS ISIP	
Depth	Depth	From	То	Pre Pad		Мах		5 Min.	
Volume	Volume	From	То	Pad		Min		10 Min	
Max Press	Max Pres	s From	То	Frac		Avg		15 Min	
Well Connection	on Annulus V	<sup>/ol.</sup> From	То			HHP Used		Annulu	is Pressure
Plug Depth	Packer De		То	Flush		Gas Volun	ne	Total L	oad
Customer Rep	presentative	RICK	Sta	tion Manager ), (	NESTERY	MAR)	Treater	LESLEN	
Service Units	78268	84980	20920 27	1808 19883	r				
Driver Names	LESEL	MATTAL		BERHL BULK	- (SANT	TAGO)			
Time	Casing / Pressure	Tubing Pressure	Bbls. Pumped	Rate			Serv	ice Log	
11:30AM	=				ONL	DEATH	W - 51	PETY ME	ETTAG
	7				RUN	40'01		IPE DOWN!	
2		×.,			CATT	15 50			
2:15 pm	0	0			RAISE	CMIT	TO SI	RFACE	014.8 PF
3. JUPM	$\mathcal{O}$	0	38	-1	WAIT	20 M	IN - CH	IT HELL	
No.					WAIT	4 HRS	BEFOR	E DRILL	WG -
ų.					Jo	B Con	NPLETE		
							THAN	125 -	
1979 - 1999 - 1977 - 19			at in the H in the	9 - 10 - 10 - 10 <sup>44</sup>	- 6 j. ž	ė	KEI	VEN LESLE	9
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									11

Taylor Printing, Inc. 620-672-3656



#### P.O. Box 219 Fort Morgan, CO 80701 PH (970) 867-2766 FAX (970) 867-5922

41070992

SERVICE ORDER - 1728-70,192

Customer's Order #:

Location:

RRC #:

Date: 11/17/2017

#### Well Name: **BIGGS 1-36**

County - State:

THOMAS, KS

Type Of Service:

CEMENT: PLUG

Customer: LD DRILLING

#### Address:

0.00

As a consideration, the above named Customer agrees to pay Basic Energy Services In accord with the rates and terms stated in Basic Energy Services current price lists. Involces are payable NET 30 (SEE 10.2) after date of involce. Upon Customer's default in payment of Customers account by such date, Customer agrees to pay interest thereon after default at 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all the collection costs and attorney fees. These terms and conditions shall be governed by the laws of the state where services are performed or equipment or materials are functioned.

Basic Energy Services, warrants only title to the products, supplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTED BASIC Energy Services, liability and Customer's exclusive remedy in any cause of action. (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies, or materials upon their return to Basic Energy Services, is expressly limited to the replacement of such products, supplies or materials or , at Basic Energy Services, option, to the allowance to the Customer of credit for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, punitive or consequential damages.

CODE	QTY	UOM	DESCRIPTION	PRICE	TOTAL
CP103	240		60/40 POZ	12.00	2880.0
CC102		Lb	Celloflake	3.70	225.
CC200	414		Cement Gel	0.25	103.6
E100	100		Light Equipment Mileage	4.50	450.0
101	200		Heavy Equipment Mileage	7.50	1500.0
E113	1035	Tn/Mi	Proppant and Bulk Delivery Charges, per ton mile	2.50	2587.5
CE204	1	4 Hrs	Depth Charge: 3001-4000'	2160.00	2160.0
E240	240		Blending & Mixing Service Charge	1.40	336.0
6003		Ea	Service Supervisor, first 8 hrs on loc.	175.00	175.0
CF153	1	Ea	Wooden Cement Plug, 8 5/8"	160.00	160.0
				Book Total: Taxes:	10,577.70
_				Disc. Price:	5,825.75

TRUCK NUMBER: 7

=

Ca 8 DRIVER: X tour

BASIC ENERGY SERVI CES - TREATER/CEMENTER

THIS JOB WAS SATISFACTORILY COMPLETED OPERATION OF EQUIPMENT WAS SATISFACTORY PERFORMANCE OF PERSONEL WAS SATISFACTORY DK

UN

X

CUSTOMER OR HIS AGENT SIGNATURE

C

YES

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NO

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Brean × 16 hos = 48 Total man hos



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CEMENT REPORT - PAGE 1

Service Order #: 70,192

Date: 17-Nov-17

Well N	lame		Location		Count	y		St	API#				
biggs	1-36				thoma	às		KS					
Forma	tion		Cement \	/ia	Type Of S	Service		Well Typ	be A	ge AF	E#	PC	)#
			DRILL PI	PE	PLUG				NEW			1	
Custor	er: LD DRILI	ING			Remar	50	0 SKS, 1	Ż, 1.43 YI 2.7 BBLS, 25.5 BBLS	@2950'-2	740'	n		
Custon	her Rep: R.W	ILSON	PH:			50	0 SKS, 1 0 SKS, 2	2.7 BBLS, .5 BBLS, @ .6 BBLS, R	@ 380'-17 40'-0'	77'			
		WELLI	BORE DATA							OTHER D	ΑΤΑ		
	Туре	Size	Weight	Dep	th V	/olume			BHT	Max PS		otal Depti	i i
S	Inface Casing:	8.625	24.0	332						292		2,950.0	
Prod	uction Casing:												( الب
	Intermediate:								Packer or	RetainerT	ype / D	epth:	
	Drill Pipe:	4.500	16.6	2,950	0.0								
	Tubing:							Dave Davek					
	Туре	Size [	epth (Top)	Depth (	(Bot) V	/olume		Perf Depth	IS:		#	)	Total 0
	Liner:	0120 0	cpui (10p)			Gluine					(		
	Open Hole:	7.875	332.0	2,950	0.0						(		
				1									
	PUMP	RATES	DENSITY	PRESS	STG TOT	TOTA	AL			2544.01	10		
TIME	WATER (gpm)	PUMP (bpm)	(ib/gi)	(psi)	(bbls)	(bbls	s)			REMAR	nə		
4:37	0	.0.0	7.45	12	0.0	26.4	4 ANI	NOTATION					
4:37	0	0.0	7.45	12	0.0	0.0	) ANI	NOTATION					
4:38	0	1.0	7.20	17	0.0	0.7	ANI	NOTATION					
4:38	0	1.0	7.19	17	0.0	0.7	ANI	NOTATION					
16:54	265	0.0	6.88	25	0.0	0.0	ANI	NOTATION					
7:00	0	4.6	13.59	41	0.0	15.2	2 ANI	NOTATION					

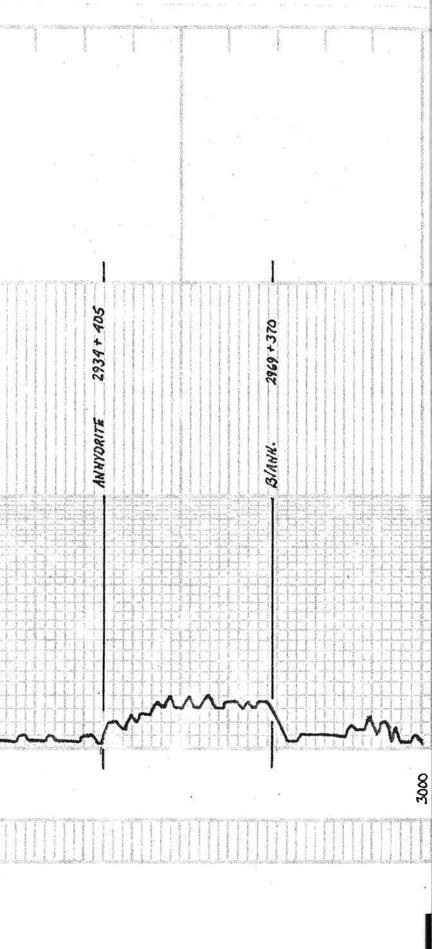
Summary

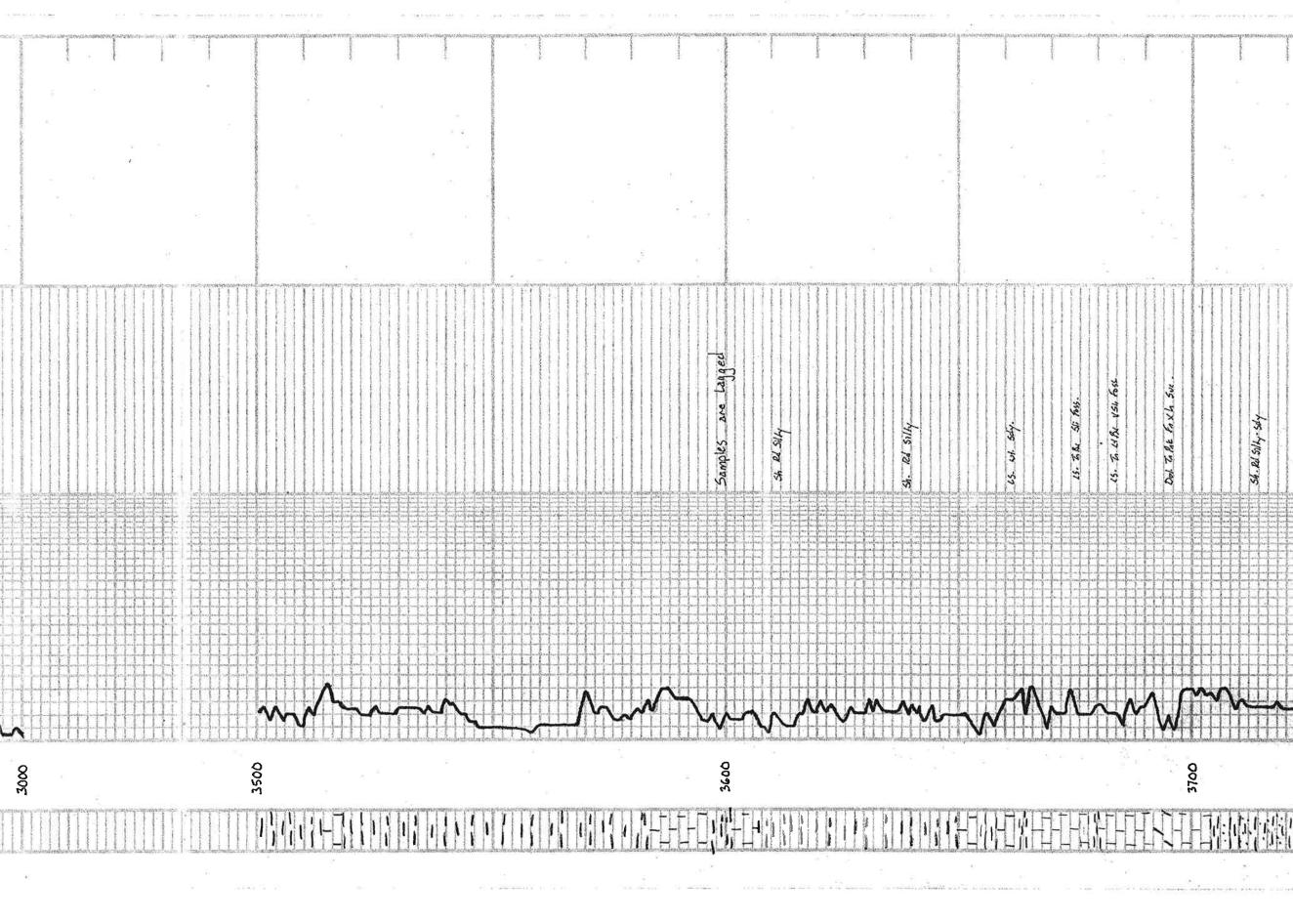
Max FI. Rate Avg FI. Rate Max Psi Avg Psi 83

4.6	1.1	298	

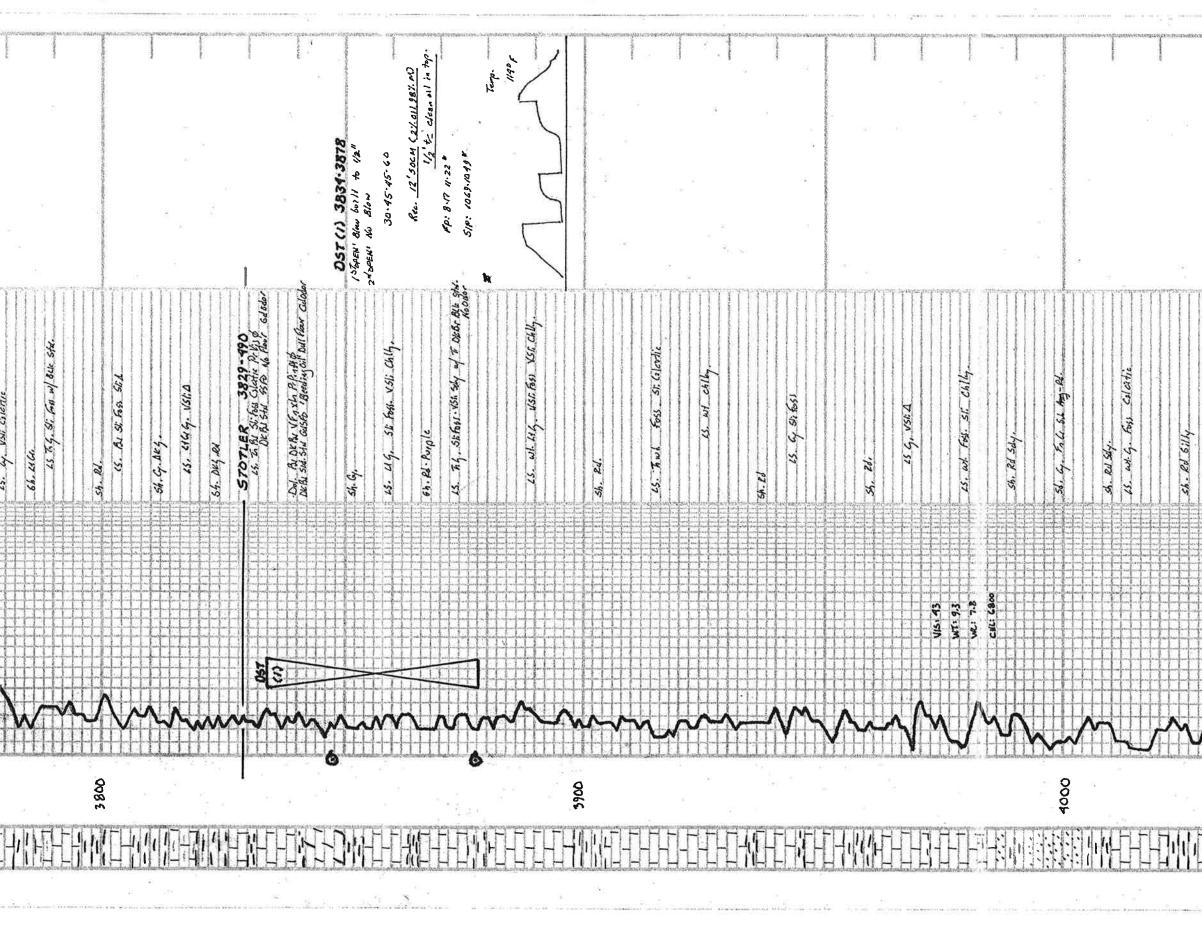
Customer Acknowledgement:	Service Rating:	Cementer:	PRODUCTS USED	٦
Allu la	Satisfactory	A.HOWELL		
pre with	Unsatisfactory			1

HEEGNER LANSING B/KC PAWNEE FORT SCOTT CHERDKEE MISSISSIPPI	4140- 801 4188 - 849 4444 - 1105 4559 - 1220 4622 - 1283 4652 - 1313 4802 - 1463	4140- 801 4186 - 847 4442 - 1103 4555 - 1216 4621 - 1282 4652 - 1313 4798 - 1459	36	-6-17 5PUD -1 0 336' -8 0 1000' -9 0 2230' -10 0 3054' -11 0 33054' -11 0 33054' -11 0 33054' -11 0 3705' -11 0 3705' -11 0 4700' -11 0 4900'		LITHOLO	2300 XS
FORMATION TOPS ANHYDRITE BY ANN. STOTLER HEEGNER	2932+ 407 2947+ 572 3832- 493	2934+405 2969+370 3829-490				DRILLING Pex of Pr	a 25
SAMPLES DIVED FROM ORILLING TIME INCOM SAMPLES ENAMINED F CONCORCAL SUPPORT CONCORCAL SUPPORT CONCORST ON WELF	ECOM	3500 3600 3800	4900		Soft Sends are Shrie	TIME IN TUNUTES PER FOOT UNIVER Demand	
316 GEO	BIGGS WILDCAT FSL 1 1590' FN GS STATE KA DRILLING, TNC. DRILLING, TNC. 11.17 10 490	GEOLOG WICH S PREF S SNFLE LO S SNFLE S SNFLE LO S SNFLE S SNFLE S SNFLE S SNFL	ST FA,KS PORT	RPV: S 2100S	LEGEND THE THE THE THE THE THE THE THE THE THE		SWPLE DESCRIPTIONS REMAINS

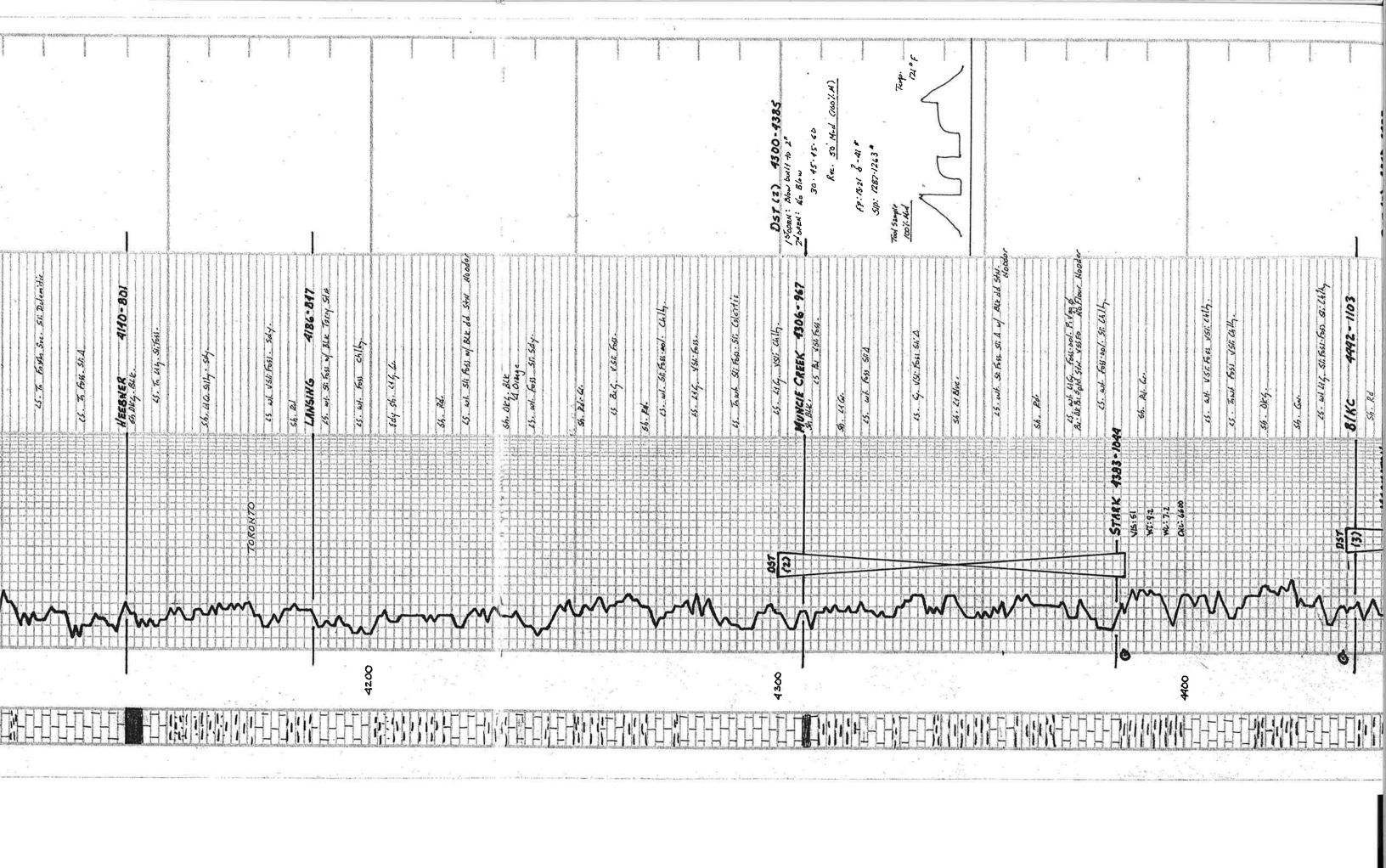




sd. CUCy to Vho fall sos ad well so the G. VSI: Olertu 4. Si Fu. 54. Rd 5114-544 54. Rel-14 G Pul. VIS: 54 MT: 8.8 WL: 7.2 Dil: 2300 3700

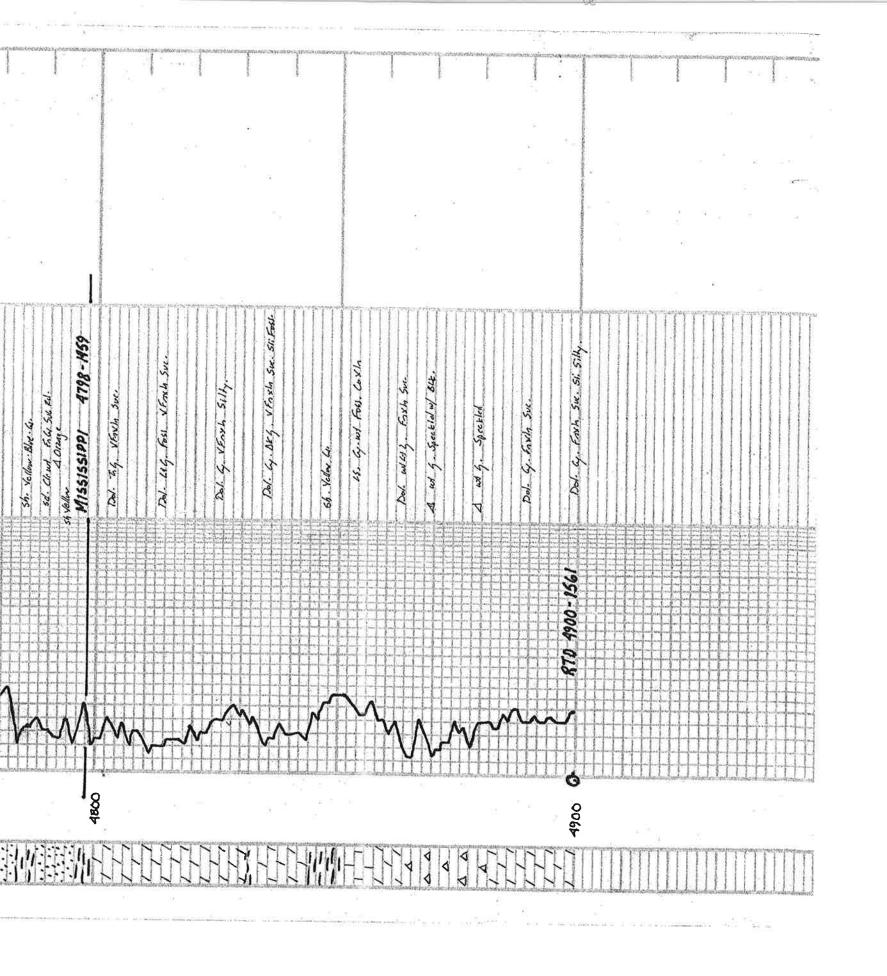


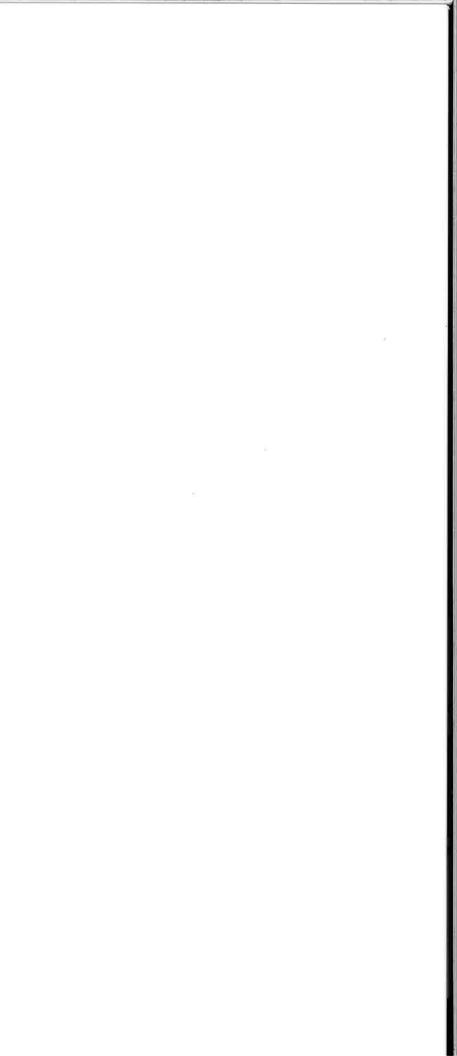
45 Th Stifes St. (21 c) the 64. VSI: Fast sh. 0x 9. BLE. 45. 74 6h. Pu. Sh. RL. 4100 旧 11

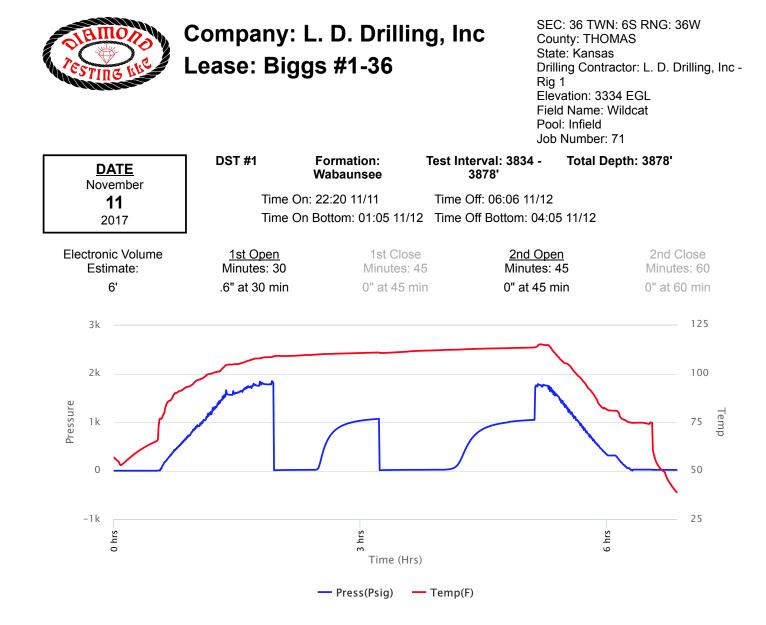


DST (3) 4940-4533 1 <sup>56</sup> 0224": Row Dall to 1 44" 2 <sup>6</sup> 0824": No Blow 30-45-45-40	Rec. <u>5' SNA</u> (90'101. 10'. M) <u>25' 3024</u> ( <u>5'. 01, 95'. M)</u> 77-30'	Fo: 10-18 21-27 6 Teol Sample S1p: 1159-11938							055 (4) 4330-4300 1560pe H: Blew built to 244 24 5feki: No Blew	30-45-45-60 Rec. <u>5' VSOCM (1'lail 99'lM)</u>	and a	Tage F								gen ist motorise and an and the state is the design of the state design of the state of the stat	seeist, rajo	normalized a		т 104-ы <i>г айдалын</i> 			
on. Re Sel- Soly 15.61 4666. 54 Rd of Transie 160	15. G. St. A Visa Colordie	<b>34. Reta. Proc.</b> 15. by VSi Post	5h: Li Bht. Li.	15 - 64 14 - 54 20 000 - 601. P. 200 - 19 6 De Be Set - Sold St. 5550 Hollier Deader	Sh. Rul	15. TAN' Stool Fen. P. Viz & NE & Set. SAL 550 Dul Pour HOODER	19. 6. Silly	she was a second se	34 SUE. MACC + 1911.	- 4 Bit 20 Shr- Si Fos. V.A. F . 550 40 6		44. 28 34 (3. 154). Ti Colorin Cord Cle.	L OK, water	is wat ear vision si a si ally.	S	15. 64. St. 613 St. A	51 Rt Cab. 4621-1282	25. 419. S. Fas Si.4	45. Ta A. 1851 651 1854 A		GARDUKER, 1094-1313	4 02 4, 51 642. 45. wt 51 64 511 6		48 4y. 481 64 - 51.4	318/25	1 G. 5dy.	13 - 15 4 - 544 - 60 54 4 - 64 1 14 - 40 040
1111-0544 Malensen	<u> </u>			<i>\$</i>		, , , , , , , , , , , , , , , , , , ,	2 (m) _ 16:53 2 (m) _ 16:53 20:24	8 8		see See	2				M	w/		<u> </u>	~~		1 V						
			41111 420 420												4600								11) - [2]				

5d Ch wh. E. Hd Co 516 Pd. So Clewt. Ald to la Sub Rd. 1. 74 Jun 1. 4. 4. Sh. Yellow' Blee 4. 544 Sh Yellow Ur. 5h. Ed. El ala: Sh. 44 4700 如他對何時運動的問題的譯動







	Company: Lease: Biç	L. D. Drill ggs #1-36	ing, Inc	Cou Sta Dril Rig Ele Fie Poo		: L. D. Drilling, Inc - GL
DATE	DST #1	Formation: Wabaunsee	Test Interv 38		Total Depth:	3878'
November	Time	On: 22:20 11/11	Time Off	06:06 11/12		
11		On: 22.20 11/11 On Bottom: 01:05 11			5 11/12	
2017	Time			Dottom: 04.0	5 11/12	
Recovered				011.0/		NA 10/
Foot BBLS	· · · ·	otion of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	Mud %
12 0.12312	2 5	LOCM	0	2	0	98
Total Recovered: 12 Total Barrels Recove		Reversed Out NO		Recover	ry at a glance	•
			0.1			
Initial Hydrostatic Press	sure 1778	PSI				
Initial F	low 8 to 17	PSI				
Initial Closed in Press	sure 1069	PSI	0.05			
Final Flow Press	sure 11 to 22	PSI				
Final Closed in Press		PSI	0			
Final Hydrostatic Press		PSI			Reco	overy
Tempera	ture 114	°F		Gas	• oil • w	ater 🛑 Mud
Pressure Change Ir Close / Final C		%		0%	2% 09	



SEC: 36 TWN: 6S RNG: 36W County: THOMAS State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 3334 EGL Field Name: Wildcat Pool: Infield Job Number: 71

DATE November 11 2017

**DST #1** 

Formation: Wabaunsee

Test Interval: 3834 -3878'

Total Depth: 3878'

Time On: 22:20 11/11 Time On Bottom: 01:05 11/12 Time Off Bottom: 04:05 11/12

Time Off: 06:06 11/12

REMARKS:

Initial Flow: Blow increasing to .6 in. Initial Shut-in: No blow. Final Flow: No blow. Final Shut-in: No blow.

Tool Sample: 100% mud



SEC: 36 TWN: 6S RNG: 36W County: THOMAS State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 3334 EGL Field Name: Wildcat Pool: Infield Job Number: 71

DATE November	DST #1	Formation: Wabaunsee	Test Interval: 3834 - 3878'	Total Depth: 3878'
<b>11</b> 2017		On: 22:20 11/11 On Bottom: 01:05 11/12	Time Off: 06:06 11/12 Time Off Bottom: 04:05	5 11/12

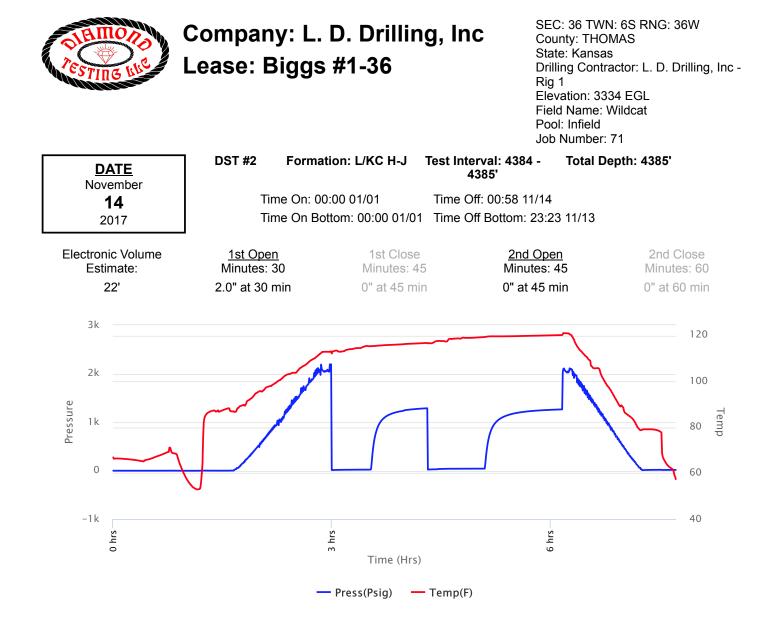
### Down Hole Makeup

Heads Up:	9.74 FT	Packer 1:	3829 FT
Drill Pipe:	3811.17 FT	Packer 2:	3834 FT
ID-3 1/4		Top Recorder:	3818.42 FT
Weight Pipe: ID-2 7/8	0 FT	Bottom Recorder:	3876 FT
Collars:	0 FT	Well Bore Size:	7 7/8
ID-2 1/4		Surface Choke:	1"
<b>Test Tool:</b> ID-3 1/2-FH Jars Safety Joint	33.57 FT	Bottom Choke:	5/8"
Total Anchor:	44		
Anchor	-		
Packer Sub:	1 FT		
Perforations: (top): 4 1/2-FH	40 FT		
Change Over:	FT		
Drill Pipe: (in anchor): ID-3 1/4	FT		
Change Over:	FT		
Perforations: (below): 4 1/2-FH	3 FT		



PESTING ME	Company: Lease: Biç	: L. D. Drillin ggs #1-36	I <b>G, INC</b> Co Sta Dr Riu Ele Fie Po	EC: 36 TWN: 6S RNG: 36W bunty: THOMAS ate: Kansas illing Contractor: L. D. Drilling, Inc - g 1 evation: 3334 EGL eld Name: Wildcat pol: Infield b Number: 71
DATE November	DST #1	Formation: Wabaunsee	Test Interval: 3834 - 3878'	Total Depth: 3878'
11	Time	On: 22:20 11/11	Time Off: 06:06 11/12	2
2017	Time	On Bottom: 01:05 11/12	Time Off Bottom: 04:	05 11/12
		Gas Volume I	Report	

1st Open					2nd Open			
Time	Orifice	PSI	MCF/D	]	Time	Orifice	PSI	MCF/D



		v: L. D. Drillin ggs #1-36	ng, Inc	Cou Stat Drilli Rig Elev Field Poo		MAS actor: L. I 84 EGL Vildcat	G: 36W D. Drilling, Inc -	
DATE November	DST #2	Formation: L/KC H-J	Test Interv 438		Total De	opth: 438	35'	
14	Time	e On: 00:00 01/01	Time Off:	00:58 11/14				
2017	Time	e On Bottom: 00:00 01/0	1 Time Off	Bottom: 23:23	3 11/13			
Recovered								
Foot BBLS	Desci	ription of Fluid	<u>Gas %</u>	<u>Oil %</u>	Wate	r %	<u>Mud %</u>	
50 0.513		M	0	0	0	<u> </u>	100	
Total Recovered: 50 Total Barrels Recove	-	Reversed Out NO	0.5	Recover	y at a gla	ance		
Initial Hydrostatic Press	ure 2056	PSI						
Initial F	low 13 to 21	PSI	고 였 0.25 ——					
Initial Closed in Press	ure 1287	PSI						
Final Flow Press	ure 0 to 41	PSI						
Final Closed in Press	ure 1263	PSI	0					
Final Hydrostatic Pressu	ire 2033	PSI	1			Recovery	/	
Temperat	ure 121	°F		Gas 0%	Oil	Water 0%	Mud 100%	
Pressure Change In	itial 1.9	%		U70	U%	0%	100%	



SEC: 36 TWN: 6S RNG: 36W County: THOMAS State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 3334 EGL Field Name: Wildcat Pool: Infield Job Number: 71

Total Depth: 4385'

DATE November 14 2017 REMARKS:

IF-Built to 2" **ISI- No Blow** FF- No Blow FSI- No Blow

Tool sample = Mud

DST #2 Formation: L/KC H-J

Test Interval: 4384 -4385'

Time Off: 00:58 11/14

Time On: 00:00 01/01 Time On Bottom: 00:00 01/01 Time Off Bottom: 23:23 11/13



SEC: 36 TWN: 6S RNG: 36W County: THOMAS State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 3334 EGL Field Name: Wildcat Pool: Infield Job Number: 71

DATE	
November <b>14</b>	
2017	

 
 DST #2
 Formation: L/KC H-J
 Test Interval: 4384 -4385'
 Total Depth: 4385'

 Time On: 00:00 01/01
 Time Off: 00:58 11/14
 Time Off: 00:58 11/14

 Time On Bottom: 00:00 01/01
 Time Off Bottom: 23:23 11/13

### **Down Hole Makeup**

Heads Up:	-460.95 FT	Packer 1:	Not ran
Drill Pipe:	3902.89 FT	Packer 2:	4384 FT
ID-3 1/4		Top Recorder:	4376 FT
Weight Pipe: ID-2 7/8	FT	Bottom Recorder:	4386 FT
Collars:	FT	Well Bore Size:	7 7/8
ID-2 1/4		Surface Choke:	1"
Test Tool:	21.16 FT	Bottom Choke:	5/8"
ID-3 1/2-FH			
Total Anchor:	1		
	<u>Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top):	FT		
4 1/2-FH			
Change Over:	FT		
Drill Pipe: (in anchor):	FT		
ID-3 1/4			
Change Over:	FT		
Perforations: (below): 4 1/2-FH	FT		

	AMO.	
res	TING	

SEC: 36 TWN: 6S RNG: 36W County: THOMAS State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 3334 EGL Field Name: Wildcat Pool: Infield Job Number: 71

DATE November	DST #2	Formation: L/KC H-J	Test Interval: 4384 - 4385'	Total Depth: 4385'
<b>14</b> 2017	-	ime On: 00:00 01/01 ime On Bottom: 00:00 01/01	Time Off: 00:58 11/14 Time Off Bottom: 23:23	11/13
		Mud Prope	rties	

Viscosity:

Mud Type:

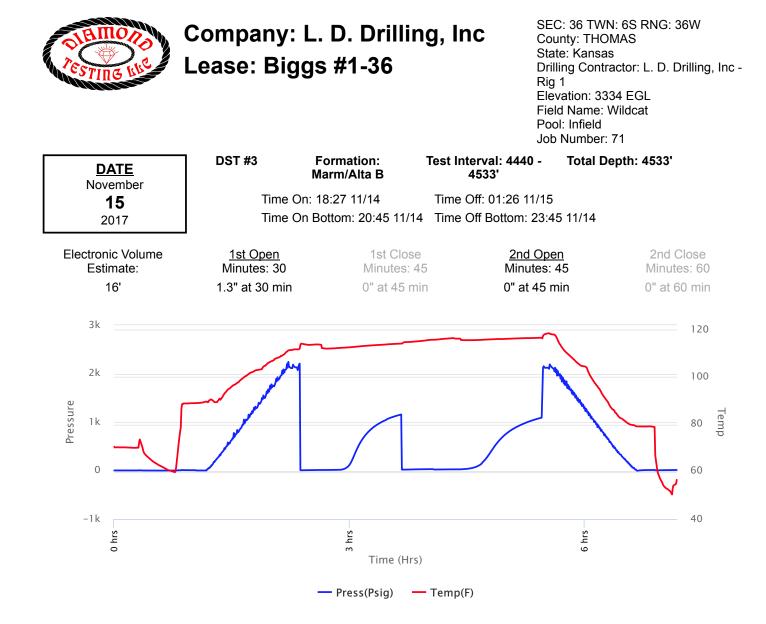
Weight:

Filtrate:

Chlorides: ppm

PESTING ME	-	y: L. D. Drillir Biggs #1-36	ng, Inc E F F F F	SEC: 36 TWN: 6S RNG: 36W County: THOMAS State: Kansas Drilling Contractor: L. D. Drilling, Inc - Rig 1 Elevation: 3334 EGL Field Name: Wildcat Pool: Infield Job Number: 71
DATE November	DST #2	Formation: L/KC H-J	- Test Interval: 4384 4385'	- Total Depth: 4385'
14	Tir	me On: 00:00 01/01	Time Off: 00:58 11/	14
2017	Tir	me On Bottom: 00:00 01/0	1 Time Off Bottom: 23	3:23 11/13
		Gas Volume	Report	

1st Open						2nd O	pen	
Time	Orifice	PSI	MCF/D	]	Time	Orifice	PSI	MCF/D



	Company: _ease: Big	L. D. Drilliı gs #1-36	ng, Inc	C S D R E Fi P	EC: 36 TWN: 6S I ounty: THOMAS tate: Kansas rilling Contractor: ig 1 levation: 3334 EG ield Name: Wildca ool: Infield ob Number: 71	L. D. Drilling, Inc - L
DATE November	DST #3	Formation: Marm/Alta B	Test Interv 45		Total Depth:	4533'
15	Time C	)n: 18:27 11/14	Time Off:	: 01:26 11/1	5	
2017	Time C	n Bottom: 20:45 11/1	4 Time Off	Bottom: 23	:45 11/14	
Recovered						
Foot BBLS	Descript	ion of Fluid	Gas %	<u>Oil %</u>	Water %	Mud %
25 0.2565		.OCM	0	5	0	95
5 0.0513	SL	MCO	0	90	0	10
Total Recovered: 30 Total Barrels Recove	-	Reversed Out NO		Recov	ery at a glance	
luitiel I kudus statis Dusse	ure 2131	PSI	0.2			
Initial Hydrostatic Press Initial F		-	Б Б С Г			
Initial Closed in Press		PSI	0.1			
Final Flow Press		PSI				
Final Closed in Press		PSI	0			
Final Hydrostatic Press	ure 2122	PSI	0		Recov	ery
Temperat		°F				• • • •
Pressure Change In Close / Final Cl		%		Gas 0%	Oil Wa 19.17% 0%	ater Mud 6 80.83%



SEC: 36 TWN: 6S RNG: 36W County: THOMAS State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 3334 EGL Field Name: Wildcat Pool: Infield Job Number: 71

DATE November 15 2017

#### REMARKS:

IF- Built to 1.3" **ISI- No Blow** FF- No Blow FSI- No Blow

Tool Sample= OCM 40%O 60%M

#### Formation: Marm/Alta B

DST #3

Test Interval: 4440 -Total Depth: 4533' 4533'

Time On: 18:27 11/14 Time On Bottom: 20:45 11/14 Time Off Bottom: 23:45 11/14

Time Off: 01:26 11/15



SEC: 36 TWN: 6S RNG: 36W County: THOMAS State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 3334 EGL Field Name: Wildcat Pool: Infield Job Number: 71

DATE November	DST #3	Formation: Marm/Alta B	Test Interval: 4440 - 4533'	Total Depth: 4533'
<b>15</b> 2017		On: 18:27 11/14 On Bottom: 20:45 11/14	Time Off: 01:26 11/15 Time Off Bottom: 23:45	5 11/14

### Down Hole Makeup

Heads Up:	26.79 FT	Packer 1:	4434.54 FT
Drill Pipe:	4433.76 FT	Packer 2:	4439.54 FT
ID-3 1/4		Top Recorder:	4423.96 FT
Weight Pipe: ID-2 7/8	FT	Bottom Recorder:	4531 FT
Collars:	FT	Well Bore Size:	7 7/8
ID-2 1/4	11	Surface Choke:	1"
<b>Test Tool:</b> ID-3 1/2-FH Jars Safety Joint	33.57 FT	Bottom Choke:	5/8"
Total Anchor:	93.46		
Anchor	<u>Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top): 4 1/2-FH	24 FT		
Change Over:	1 FT		
Drill Pipe: (in anchor): ID-3 1/4	63.46 FT		
Change Over:	1 FT		
Perforations: (below): 4 1/2-FH	3 FT		

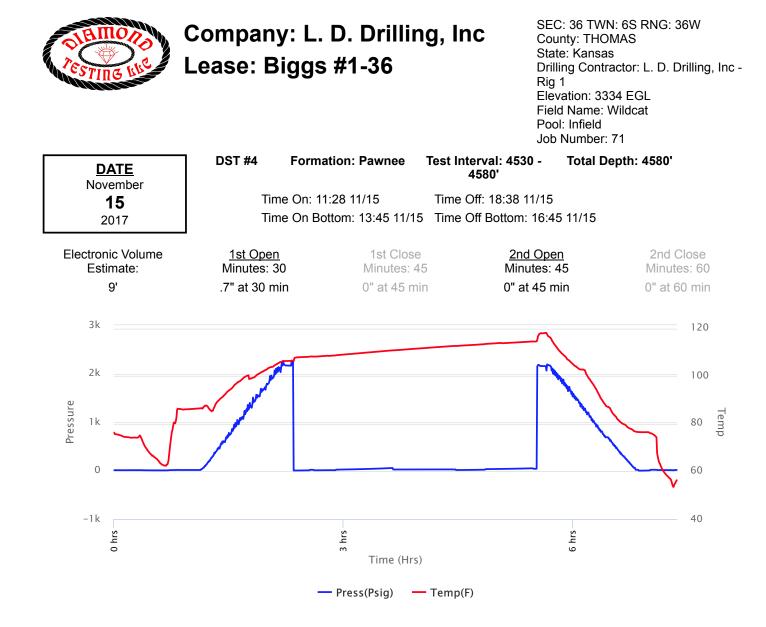


SEC: 36 TWN: 6S RNG: 36W County: THOMAS State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 3334 EGL Field Name: Wildcat Pool: Infield Job Number: 71

	DATE November	DST #3	Formation: Marm/Alta B	Test Interval: 4440 - 4533'	Total Depth: 4533'				
	15	Time	e On: 18:27 11/14	Time Off: 01:26 11/15					
	2017	Time	e On Bottom: 20:45 11/14	Time Off Bottom: 23:4	5 11/14				
	Mud Properties								
м	ud Type: Chemical	Weight: 9.2	Viscosity: 58	Filtrate: 7.2	Chlorides: 6800 ppm				

PESTING MC	Company: Lease: Big		ng, Inc	SEC: 36 TWN: 6S RNG: 36W County: THOMAS State: Kansas Drilling Contractor: L. D. Drilling, Inc Rig 1 Elevation: 3334 EGL Field Name: Wildcat Pool: Infield Job Number: 71	: -
DATE November	DST #3	Formation: Marm/Alta B	Test Interval: 4440 4533'	- Total Depth: 4533'	
<b>15</b> 2017		Dn: 18:27 11/14 Dn Bottom: 20:45 11/ <sup>-</sup>	Time Off: 01:26 11/ 14 Time Off Bottom: 2		
	_	Gas Volume	Report		

1st Open					2nd Open			
Time	Orifice	PSI	MCF/D		Time	Orifice	PSI	MCF/D



		r: L. D. Drillin ggs #1-36	ng, Inc	Cou Sta Dril Rig Ele Fie Poo		. D. Drilling, Inc -
DATE	DST #4	Formation: Pawnee	Test Inter 45	val: 4530 - 80'	Total Depth: 4	580'
November	<b>T</b>	0				
15		e On: 11:28 11/15 e On Bottom: 13:45 11/1		: 18:38 11/15 Bottom: 16:4	E 44/4E	
2017	TIME		5 Time Oil	Bollom: 10.4	5 11/15	
Recovered						
Foot BBLS		<u>iption of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
5 0.0513		SLOCM	0	1	0	99
Total Recovered: 5 ft Total Barrels Recover	red: 0.0513	Reversed Out NO	0.05 —	Recover	ry at a glance	_
Initial Hydrostatic Press	ure 2167	PSI				
Initial Fl	ow 3 to 10	PSI	0.025			
Initial Closed in Press	ure 56	PSI				
Final Flow Press	ure 23 to 24	PSI				
Final Closed in Press	ure 49	PSI	0			
Final Hydrostatic Pressu	ire 2156	PSI	I		Recov	ery
Temperat	ure 115	°F		🔵 Gas	• Oil • Wat	er 🛑 Mud
Pressure Change Ini Close / Final Clo		%		0%	1% 0%	99%



SEC: 36 TWN: 6S RNG: 36W County: THOMAS State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 3334 EGL Field Name: Wildcat Pool: Infield Job Number: 71

Total Depth: 4580'

DATE November 15 2017

### REMARKS:

IF- Built to .7" **ISI- No Blow** FF- No Blow FSI-No Blow

Tool Sample= MUD

#### DST #4 **Formation: Pawnee**

Test Interval: 4530 -4580'

Time On: 11:28 11/15

Time Off: 18:38 11/15

Time On Bottom: 13:45 11/15 Time Off Bottom: 16:45 11/15



## Company: L. D. Drilling, Inc Lease: Biggs #1-36

SEC: 36 TWN: 6S RNG: 36W County: THOMAS State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 3334 EGL Field Name: Wildcat Pool: Infield Job Number: 71

DATE November	DST #4	Formation: Pawnee	Test Interval: 4530 - 4580'	Total Depth: 4580'
15	Tim	e On: 11:28 11/15	Time Off: 18:38 11/15	
2017	Tim	e On Bottom: 13:45 11/15	Time Off Bottom: 16:45	11/15
		Down Hole M	akeup	

Heads Up:	30.3 FT	Packer 1:	4525.25 FT
Drill Pipe:	4527.98 FT	Packer 2:	4530.25 FT
ID-3 1/4		Top Recorder:	4514.67 FT
Weight Pipe: ID-2 7/8	FT	Bottom Recorder:	4578 FT
Collars:	FT	Well Bore Size:	7 7/8
ID-2 1/4		Surface Choke:	1"
<b>Test Tool:</b> ID-3 1/2-FH Jars Safety Joint	33.57 FT	Bottom Choke:	5/8"
Total Anchor:	49.75		
	<u>Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top): 4 1/2-FH	12 FT		
Change Over:	1 FT		
Drill Pipe: (in anchor): ID-3 1/4	31.75 FT		
Change Over:	1 FT		
Perforations: (below): 4 1/2-FH	3 FT		



SEC: 36 TWN: 6S RNG: 36W County: THOMAS State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 3334 EGL Field Name: Wildcat Pool: Infield Job Number: 71

DATE November	DST #4	Formation: Pawnee	Test Interval: 4530 - 4580'	Total Depth: 4580'
<b>15</b> 2017	-	ime On: 11:28 11/15 ime On Bottom: 13:45 11/15	Time Off: 18:38 11/15 Time Off Bottom: 16:45	5 11/15
		Mud Proper	rties	

Mud Type: Chemical

Weight: 9.2

Viscosity: 62

Filtrate: 7.2

Chlorides: 6800 ppm



SEC: 36 TWN: 6S RNG: 36W County: THOMAS State: Kansas Drilling Contractor: L. D. Drilling, Inc -Rig 1 Elevation: 3334 EGL Field Name: Wildcat Pool: Infield Job Number: 71

DATE November	DST #4	Formation: Pawnee	Test Interval: 4530 - 4580'	Total Depth: 4580'
15	Tin	ne On: 11:28 11/15	Time Off: 18:38 11/15	
2017	Tin	ne On Bottom: 13:45 11/1	5 Time Off Bottom: 16:45	11/15
	-	• • • •		

#### **Gas Volume Report**

1st Open					2nd O	pen	
Time	Orifice	PSI	MCF/D	Time	Orifice	PSI	MCF/D