Lease Owner: Thomas C

Johnson County, KS TDR Construction, INC. Commenced Spudding: (913) 837-8400 (913) 837-8400

12/19/2018

WELL LOG

Thickness of Strata	Formation	Total Depth
0-14	soil-clay	14
5	lime	19
4	shale	23
15	lime	38
6	shale	44
9	lime	53
9	shale	62
16	lime	78
10	shale	88 redbed
8	sand	96 no oil
78	lime	174
31	shale	205
9	lime	214
19	shale	233
8	lime	241
3	shale	244
9	lime	253
34	shale	287
1	lime	288
9	shale	297
27	lime	324
5	shale	329
25	lime	354
3	shale	357
5	lime	362
4	shale	366
8	lime	374 Hertha
172	shale	546
4	lime	550
2	shale	552
4	lime	556
5	shale	561
7	lime	568
17	shale	585
3	lime	588
8	shale	596
9	lime	605
134	shale	739
2	lime	741
90	shale	831

Johnson County, KS TDR Construction, INC. Commenced Spudding: Well: 2-1 (913) 837-8400

12/19/2018

Lease Owner: Thomas C

2	limey sand	833 good oil show
8	sand	841 solid-good saturation
99	shale	940 TD
	X	

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	AND THE RESERVE OF THE PERSON	

Short Cuts

TANK CAPACITY

BBLS. (42 gal.) equals D2x.14xh D equals diameter in feet. h equals height in feet.

BARRELS PER DAY Multiply gals. per minute x 34.2

HP equals BPH x PSI x .0004 BPH - barrels per hour PSI - pounds square inch

TO FIGURE PUMP DRIVES

- * D Diameter of Pump Sheave
- * d Diameter of Engine Sheave

SPM - Strokes per minute

RPM - Engine Speed

R - Gear Box Ratio

*C - Shaft Center Distance

D - RPMxd over SPMxR

d - SPMxRxD over RPM

SPM - RPMXD over RxD

R - RPMXD over SPMxD

BELT LENGTH - 2C + 1:57(D + d) + $\frac{(D-d)^2}{4C}$

* Need these to figure belt length

TO FIGURE AMPS:

WATTS = AMPS

746 WATTS equal 1 HP

Log Book

Well No.		<u> </u>	
Farm	Thom	a5 C	
K.		454	Johnson
(State	∍)		(County)
1	{	14	22
(Secti	on)	(Township)	(Range)
For5		Froleum Vell Owner)	inc
	,,		

15-091-24500

Town Oilfield Services, Inc.

1207 N. 1st East Louisburg, KS 66053 913-710-5400

Thomas C Farm: John Son County	CASING AND TUBING MEASUREMENTS					
State; Well No. 2-1	Feet	ln.	Feet	In.	Feet	in.
Elevation 1032	896	B	241-	2		1
Commenced Spuding 12-19 20 18 Finished Drilling 12-21 20 18					2	100
Commenced Spuding $12 - 19$ $20 \frac{18}{18}$ Finished Drilling $12 - 21$ $29 \frac{18}{18}$	925	1-0	pat		Ø .	13
Driller's Name Wesley Dallard						
Driller's Name Kyan Ward	949	ナリ	>			
Driller's Name						
Tool Dresser's Name	***************************************	-				
Tool Dresser's Name	-			$+ \parallel$		-
Tool Dresser's Name	-	+		+1	- ikan-u	
Contractor's Name	-					
14 14 22	-	+-				
(Section) (Township) (Range)	£					
Distance from 5 line, 2160 ft.						
Distance from E line, 4830 ft.						
4 sacles						
10 h15					4	
5 5/8 Grebale						
27/8 casing						
CASING AND TUBING				-		<u> </u>
RECORD	-					
3.4		-		+		
10" Set 10" Pulled	-	1				
8" Set 8" Pulled		+				-
61/4" Set 2 61/4" Pulled		1				-
4" Set 4" Pulled		J	I			J
2" Set 2" Pulled			-1			

2" Set _

Thickness of	Formation	Total	74
Strata		Depth	Remarks
0-19	Soil - Clay	14	-,
_5	Line	14	
4	Shale	23	_
15	Lime	38	_
6	Shale	44	
9	Lime	53	
9	Shale	62	
16	Lime	78	
10	Shale	88	redbed
8	Sand	96	
78	Lime	114	no oil
31	Shale	205	
9	Lime	214	
19	Shale	233	
3	Lime	241	
3	Shale	244	
9	Lime	253	
34	Shale	287	
)	Lime	288	
9	Shale	297	
27	Lime	324	
5	Shale	329	
25	Lime	354	
3	Shale	357:	
5	lime	362	
4	Shale	366:	
8	Lime	374	Hertha
	-2-		

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_		7

Thickness of		Total	7
Strata	Formation	Depth	Remarks
172	Shale	546	
4	Lime	550	
2	Shale	552	
4	Lime	556	
5	Shale	561	
7	Lime.	568	
17	Shele	545	
3	Lime	588	
8	Shala	596	
a	Lime	605	7
134	51 10	739	
2	Lime	741	
	Shale	831	
90	,	833	
2	I may gand		- good UII show
8	Sand	841	-solid-good saturation
99	Shale	940	-TD
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	-4-		-5-



PRESSURE PUMPING LLC Box 684, Chanute, KS 66720 12243

LOCATION Dera wa FS.
FOREMAN SIM larces

FIELD TICKET & TREATMENT REPORT

	10 or 800-467-8676		CEMEN	IT			
DATE	CUSTOMER #	WELL NAME & NU	MBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-21-18	7532	Thomas (12-1	5W14	17	22	20
STOMER	51 Pm	roleum		TRUCK#	DRIVER	TRUCK#	DRIVER
ILING ADDR		4.	,,	1.69	Sim becom		
	18800 5	unflowerk	4	467	Ket Car		
-1-	STA	ITE ZIP CODE		675	Her Der		
1=0g	erron	25 6007		1700	Cas Ken		71-11
B TYPE/	ONG STVIGHOU	10 10 0001	HOLE DEPTI	470	CASING SIZE & V	Control of the Contro	18 E
SING DEPTH		LEIPESATT 876	TUBING			OTHER	
URRY WEIGH	IT SLU	RRY VOL	WATER gal/e	k	CEMENT LEFT In	CASING	
PLACEMEN	T DISI	PLACEMENT PSI	MIX PSI		RATE	,,	<i>A</i>
MARKS: /	teld sason	Meeting	Mixa	nd lun	0 1	gel zu	flush
ale.	Mirand	Ou ma 0 127	5K P62	Blend I	4 with	270 600	1
UUU	=11- Seal-	Circulated	Comp	nr +65	urface	Flus	Loun
Mear	of cemen	0	7 7. 6	bb 4 110	10 76 7	0 701 de	6 +60
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rasing	, prend	ap 7 6 C	7001-4	0010	ela de	10 Jet	21047

ACCOUNT	QUANITY or U	NITS	DESCRIPTION of	SERVICES or PR	ODUCT	UNIT PRICE	TOTAL
=0450		PUMP CHAF	RGE		467	1500	
	mi B				111	911.00	

CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
E0450	/	PUMP CHARGE 967	1500	
E0002	20	MILEAGE 457	214,50	
E0711	MIN	Coment Jun Mileage 548	660	
VE 0853	21125	VAL TK. 675	260	
			2574	
		Less=40%	1029.80	
				1544,
0.11	0.46	21 - 21 - 1	100115	
C55840-	12754 PARES 12754	POZ-Blend TA Cement	1719	
15965	4134	Cul	12390	
16075	32"	E10-Seal	6400	
18/76		21/5" Rubber Plug	45=	/
			1947.7	
		Less-4090	778,94	
				1168,8
	- AND -	7.975%	SALES TAX	93,10
win 3737	//	TITLE / In Ser 12-21-18	ESTIMATED	2811
UTHORIZTION	16 1-1	TITLE / 10 /2-21-18	DATE	2/100

I acknowledge that the payment terms, unless specifically emended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

TERMS AND CONDITIONS

ATTENTION: THESE TERMS AND CONDITIONS CONTAIN INDEMNITY PROVISIONS FOR DAMAGE TO PERSONS AND PROPERTY.

All Services or Products provided by OES Pressure Pumping LLC (fill/a Consolidated Off Well Services LLC) are subject to these Terms and Conditions unless supersided by a Master Service Agreement signed by the parties. In the event Customer does not accept these Terms and Conditions as written. Customer must request a Master Service Agreement from QES' Contracts Administration Department. at myaffenosia com

- The observations, services, supplies, moveralls personnel or goods to be provided ("Devices" or Products as applicable to OPS Pressure Pumping LCO ("OES") will be provided to you as obscious ("Quspiner") in accordance with the following terms and incidence ("<u>Parenings</u>"). QES and Customer may be refurred to as "Parly" Parens.
- 1. <u>Price and Taxos</u>. Customer will pay QES for the behaviors or Productivial accordance with QES (quoted of ce which exclude applicable taxos are process fears) least related to the Services and or Products. QES prices are subject to prange without notice.
- 2. Limbs of Payment. Custoscul will pay DES death or advance for Services and Products unless QES has approved credit prior to the period abose of the Services and not delivery of the Products. Credit ferms for approved access to under the product amount with a 30-large from the delivery of the product amount with a 30-large from the delivery at 15 period to the 36-days will be married an interest rate of 1.25 period and on the married payment after otherwise state of the 25 period and the married and the credit time of any large word to OES including but not interest to accounty's fees ambior collection fee costs.
- Product Services in Detwork of Padiable, QES will furnish verification of your of Services pedarmed and Product derverge to Clasional's representative at the large of performance of the Services of Product delivery. Conference agrees to age and return attentive medication indication Questions is acceptance of the
- 4. Describe or Condition. As liability and responsibility or CEN crases when 19 Products are delivered to the Customer by CES and no longer in the care, custody and control of CES and 20 when the cares response the Products parter suppress. GES will not be re-possible for use the sample of Endough and Assistant by subject of the sample not be void or voidable as a result thereof.
- 5. Wedget Solvice Site Conditions, Customer, inverty castody and count of the well processerves site, and having soperior knowledge of the same and the conditions surrounding them, warrant that the well and/or service site will be a inforcer condition to receive and accommodate Services and Producta. Dominate service site will be a inforcer or discount relation to verify that the wall or service site is accordance to support the Services and the delevery of Products Customer also were arrest that QES passented and experiment will be able to safety ancess the first and services are and that any special equipment or read. improvements required for such accuss still life air Haspansifolicy of Clastomer, unless otherwise agreed
- in the first on an interest of cumulating shows that for any was a maked as perfect the provided Unicomes set on cumulating the group of the provided that provided any upbroath of the regime one perfecting on the transportation, storage and handling of characters and nation has maked as
- 7. Gate, Detail Transmission and Storage, QCS uses not warrant or guarantee the ecuatrator of any season of arrayms for other door generator but the Storages, curb is not respectively for any socialization of seasons of exercising electropics of such data by term paratic storage is the esponsibility of the Couldness to storage is such cathe address from including any metains occurs a glast of output papers for couldness to storage is such as the couldness.

- 8 WARRANTES UNITED IN 18 Services and Products will july be fine from detects in a detects and your many type (1) to port mediate the servicing precises and in conform to the plans, specifications are detected. And servicing precises and in conform to the plans, specifications are detected. And only by Osstones, mind the Services are Products are acceptable by Constance in Products and the Carbonian and the formation of the plans are allest on as Services in Products and in the central products are acceptable with a few products are acceptable of the factor of the following the Products are acceptable to 18 Services and Products are acceptable to 18 Services and Products are acceptable to 3 Services and Transactional Services are Products against the first are on paid by Costoner for the reference against of the Services or Products upon their restricts of the Services are acceptable to 3 Services and their restricts of the Services are acceptable to 3 Services and their restricts of the Services are acceptable to 3 Services and their restricts of the Services of Products upon their restricts to the original to 18 services, from the maintagular restricts of the Costoner for the maintagular restricts and the services of the s recommended recipionaries procedures, and its group ofsitional on reprocedure due to boths, west and
- EXCEPT FOR THE WARRANTIES EXPRESSLY STATED ABOVE, THERE ARE NO OTHER WARRANT SS. THE PARTIES EXPRESSLY EXCLUDE AND CUSTOMER WAIVES ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
- c) IN NO EVENT WILL GESTENTIRE LIABILITY (IN TORT, CONTRACT) WARRANTY, INFRINGEMENT OR OTHERWISE) TO CUSTOMER EXCEED THE PURCHASE PRICE ACTUALLY PAID BY CUSTOMER FOR THE SERVICES OR PRODUCTS THAT GIVE RISE TO A DISPUTE, THIS PROVISION WILL SURVIVE ANY TERMINATION OF THIS AGREEMENT

- 9 INDEMNIFICATION AND WAVER OF CONSEQUENTIAL DAMAGES.
 9.1 For purpose of this Section 9 the following define one and early. Care Single Impairs Ones Pressure Pumping LLC. Its parent receives in any efficience contains as an in their officers direction, enably-sets confluents is operantly enably-sets confluents is constructed with sent instances. Tax songer Group, main is Catamine, as parently enably, substituting and efficient companies concorned accurately better and any enably with word Customer has an escurious anticeed with respect to the Sanvices, including Customer's out interest outer that any enables of the control of th
- 9.2 QES IND EMINITY QES AGREES TO PROTECT, DEFEID, INDEMINIFY AND HOLD HARMLESS CUSTOMER, GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS, AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER, ARIBING IN COMMECTION WITH THE SERVICES, ON ACCOUNT OF BOOILY INJURY, ILLNESS OR DEATH OF ANY MEMBER OF QES GROUP DR. DAMAGE TO OR LOSS OF PROPERTY OF ANY MEMBER OF QES GROUP.
- 9.3 CUSTOMER INDEMNITY. CUSTOMER AGREES TO PROTECT, DEFEND, INDEMNIFY AND HOLD HARMLESS GES GROUP FROM AND AGAINST ALT. CLAIMS, DEMANDS, AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER. ARBING IN CONNECTION WITH THE SERVICES. ON ACCOUNT OF BODILY INJURY ILLINESS. ON DEATH OF ANY MEMBER OF CUSTOMER GROUP OR DAMAGE TO OR LOSS OF PROPERTY OF ANY MEMBER OF CUSTOMER GROUP.
- 9.4 WELL, CUSTOMER WILL RELEASE, PROTECT, DEFEND, AND INDEMNIFY QES GROUP FROM AND ADMINST ACT. CLAIMS, DEN MADS AND CAUSES TOF ACTION OF EVERY AIRC AND CHARACTER IN THE EVENTS OF: (I) LOSS OR DAMAGE TIO AN GEOLOGICAL FORMATION, STRATA, OR OIL OR, GAS RESERVICHOR, OR, MIMERAL OR, WATER RELIBIRISE REPREATH THE SURFACE OF THE LAND OR, WATER (II) LOSS OR DAMAGE TO THE HOLE OR WELL. (III)

IMPAIRMENT OF PROPERTY RIGHTS OR OTHER INTERESTS IN OR TO OIL GAS. MINERAL OR WATER RESOURCES, AND (IV) REGAINING CONTROL OF ANY WILD WELL OR OUT OF CONTROL WELL, UNDERGROUND OR ABOVE THE SURFACE, INCLUDING REMOVAL OF WRECK, DEBRIS. EQUIPMENT, AND HAZARDOUS MATERIALS AND REMEDIATING ENVIRONMENTAL DAMAGE.

- 9.5 POLLUTION RESPONSIBILITY, Subject to paragraphs 9.2 and 9.3. It is understood and agreed between Guetorner and OES that the responsibility for pollution shall be as follows:

 (a) GES WILL ASSUME RESPONSIBILITY FOR CONTROL AND REMOVAL OF AND WILL PROTECT. DEFEND AND INDEMNIFY CUSTOMER GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS AND CAUSES OF ACTION OF EVERY KIND OF CHARACTER ARISING FROM POLLUTION OR CONTAMINATION WHICH DISCINATES ABOVE THE SURFACE OF THE LAND OR WATER FROM THE EQUIPMENT OF ANY MEMBER OF GES GROUP MAINTAINED IN DESCRIPTION CAN BE ALTER OF THE CONTROL AND AGRICULT FROM THE PROPERTY OF THE CONTROL AND AGRICULT FROM THE SERGOMENT OF THE GROUPS' CARE, CUSTODY AND CONTROL, AND ARISING FROM THE PERFORMANCE OF THE
 - (b) CUSTOMER WILL ASSUME RESPONSIBILITY FOR CONTROL AND REMOVAL OF AND WILL (b) CUSTOMER WILL ASSUME RESPONSIBILITY FOR CONTROL AND REMAYARL OF ARRIFMENT OF PROTECT, DEFEND AND INDEMNIFY CES GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER ARISING FROM POLLUTION OTHER THAN THAT DESCRIBED IN SECTION 9.5(A) ABOVE, WHICH MAY OCCUM DURING THE CONDUCT OF OPERATIONS HEREUNDEN, INCLUDING, BUT NOT LIMITED TO, POLLUTION RESULTING FROM FIRE BLOWGUIT CRATERING SEEPAGE OR OTHER UNCONTROLLED FLOW OF OIL, GAS OR OTHER SUBSTANCE
- 9.6. WAIVER OF CONSEQUENTIAL DAMAGES. NOTWITHSTANDING ANY PROVISION TO THE CONTRARY, CUSTOMER AND QES FURTHER AGREE THAT NEITHER PARTY WILL BE LIABLE TO THE OTHER OR EACH OTHER'S RESPECTIVE GROUP FOR ANY CONSEQUENTIAL INCIDENTAL OR INDIRECT DAMAGES, INCLUDING BUT NOT LIMITED TO, LOSS OF PROFIT LOSS OF PRODUCTION, REVENUE OR ANTICIPATED BUSINESS (LOSSES). CUSTOMER AGREES TO INDEMNIFY AND HOLD DES GROUP HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS FOR SUCH LOSSES ASSERTED BY MEMBERS OF CUSTOMER GROUP, GES AGREES TO INDEMNIFY AND HOLD CUSTOMER GROUP HARMLESS FROM AND AGAINST ANY AND ALL CLAIMS FOR SUCH LOSSES ASSERTED BY MEMBERS OF GES GROUP
- 9.7 EXCEPT AS OTHERWISE EXPRESSLY LIMITED BY THIS AGREEMENT OR BY LAW, ALL RELEASES INDEMNITY OBLIGATIONS AND OTHER LIABILITIES ASSUMED UNDER THIS AGREEMENT WILL BE WITHOUT LIMIT AND WITHOUT REGARD TO THE CAUSE OR CAUSES, INCLUDING, WITHOUT LIMITATION, PREEXISTING CONDITIONS, UNSEAWORTHINESS, STRICT LIABILITY, WILLFUL MISCONDUCT, AND THE SOLE, JOINT, GROSS, OR CONCURRENT NEGLIGENCE OF ANY PARTY
- 9.8. Each Party thereunder agrees to support its indefinity onlightions with hability insurance coverage with limits of liability not less than lee million distant 1510,000 000). It is the express intention of the Parities that the indefinities contained haratin apply to the follower sent permitted by applicable law, and in no event will a Party's Indemnity obligation be limited to the amount of insurance carried by each Party.

THIS SECTION I WILL SURVIVE THE TERMINATION OF EXPIRATION OF THIS AGREEMENT

- (i) Invariance A1 increase policies of sittler Perts in critical way released to the Service in Ariether for an required by this Agreement is not it allowed of the rescion differences becaused by south outly, of name the other parts group as that under not related to the reflect somewhere, DEE COS in the descinal half by relates if it was expressed as to the other pairs group and in the primary relation to a relationary to any institution of the inherperty grown.
- 11 <u>Large Majoure</u> 6 kod pt the obligation to make payments when due on the CES on Gustomer will be field not reterring to be milled by the second of the Agnerical Code, they be incerterral to recommend the destination of the destination of the destination of the code o containg love waya consequence in the force tradeura could rure und Custan in Dentifiates the work provi
- Lt. Company Lew. This deceasem will be go learned by the flower of the State at Torse switched regard to its conflict, of the provisions in the Parties angle, to submarit a measure, at invition of the Occasion of some counts treated to requision. Hereis County, Thesis and the supplied to a provision of the provision of the County of County of County and County for the supplied to a view of the county of the supplied to the county of spireton of this Agreerer
- 13 Integration (Continues, SES without an integral term contract; with respect to the Service professional and the treatment of DES with a first here as for the professional professional bottomers, so that are preferred about of Costonial bottomers, so that are preferred about of Costonial
- 14. <u>Severablety</u>, in the event only provided of the Agreement is contrasted with an sentent to easy cost page taw, rule on legislation, the event are well to account in others. The extent are the change use the entering turns are mortiful, will empire that force and offers.
- 13. Waiver: A waiver in the uart of other Party of any treach of any term picture or a mindden of this Agrico north within a continue a consecut at displaying that better the pigno for a waiver of any outcome displaying the mind and outcomes displaying the analysis of a waiver of any outcomes displaying the mind and outcomes displaying the mind and outcomes displaying the mind of the mind and outcomes displaying the mind and outcomes and outcomes displaying the mind and outcomes and outcomes displaying the mind and outcom able it breach of the Lunis or any other term, provision or condition of this Agreement
- 16. Entre Agreomer: This Agreement contains the online agreement of the Podris and regard to the subject mitted hersol and supersudes any anonomic and anticolors approximately and anticolors are undersuded as a supersude and a supersude and an anticolor and an anticolor of the Adres ment will be effective unless of a most regard and agricult of your attributions and common above as such Podry of the Podry and agriculture as a supersude and according to the Adres and a supersude and positive and the agriculture and according to the agriculture and according to the Adres and the Adr