Lease Owner:TOC, Inc.

WELL LOG

Thickness of Strata	Formation	Total Depth		
11	Soil/Clay	11		
4	Lime	15		
2	Shale	17		
6	Sandy Lime	23		
20	Shale	53		
6	Sandy Lime	59		
55	Shale	114		
28	Lime	142		
2	Shale	144		
2	Slate	146		
34	Shale	180		
10	Sand	190		
30	Sandy Shale	220		
7	Sandy Lime	227		
5	Lime	232		
7	Shale	239		
1	Grey Shale	240		
6	Lime	246		
21	Shale	267		
8	Sand	275		
134	Shale	409		
21	Sand	430		
20	Shale	450-TD		
20	Official			
	- Interest of the second			
<u>/</u>	-14 a			
	The Post Process of the Contract of the Contra			
	1,11,11,11,11,11,11,11,11,11,11,11,11,1			

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

WATTS = AMPS

TO FIGURE AMPS: VOLTS

746 WATTS equal 1 HP

Log Book

Well No	2-2	
Farm ZU	mallan	
(State)	Cra	ewford (County)
(Section)	28 (Township)	21 (Range)
For	C, The. (Well Owner)	

Town Oil Company, Inc.

16205 W. 287th St. Paola, KS 66071 913-294-2125

2 un Mullan Farm: Crawford County LS State; Well No. 2-2	CASING AND TUBING MEASUREMENTS					
State; Well No.	Feet	In.	Feet	In.		F
Elevation	33	4	reet	113,	Feet	ln.
Commenced Spuding 6-5 20 18		1				
Prinished Drilling 6-14 20 18 Driller's Name Swell Ron4 (Aud)	32		-			-
Driller's Name Sweet Rondand	33	6		\vdash		
Driller's Name	28	5		$\vdash \parallel$		
Driller's Name	32	2		$\vdash \dashv$		
Tool Dresser's Name Derick Hobertain	31	le		$+ \parallel$		
Tool Dresser's Name	33	8		╁		
Tool Dresser's Name	33	4			·	
	33	7				
Contractor's Name	38		-	$\vdash \parallel$		
	30	5		\vdash		
(Section) (Township) (Range)	36			$\vdash \vdash$		
Distance fromline,ft.	-					
Distance from (lne,ft.	409				~	
W.	, 1 1 1 1 1 1 1 1 1 1 					
,	1					-
	R=====================================					
	-					
CASING AND TUBING						
RECORD			7.7			_
10" Set 10" Pulled						
8" Set 201 5 5669 8" Pulled						
6%" Set 6%" Pulled						
HACI	_					
4" Set 4" Pulled						

-1-

2" Putled :

Thickness of Strata	Formation	Total Depth	Remarks
16	Soil & chay	ti	
4	Loone	15	Hertha.
2.	3 hate	017	
10	Jardy Line	23	3
<u>2</u> 0	5/g/e	53	
Co	evendy lime	59	
55	Shale	11.4	7
28	Lome	142	Lt Brown, Oil Show
2	shake.	144	l l
2	31Ate	146	-
34	sigle	180	W/lome streaks
lo	sand	190	sloggit all stown
30	= iandy shale	720	No show
7	Survey Lime	227	no Show, HArd
_5	Link	232	
-7	strale:	239	w/slate
	grn stale	240	w- line
Le le	Lome	246	A-San Indiana and Indiana and Indiana
21	shale	267	
8	sona	275	noshocu or ador limery
134	Shake	469	and the
di	Signel	430	garl order Gent Blend
30	5hale	450	W Line Strocks Tillo
			s en anno en a
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		L	

-2-



PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

5M-10933 PO-17054 FT-10824

LOCATION Offawa FOREMAN Alan Maden

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER#	WELL	NAME & NUME	BER	SECTION	TOWNSHIP	RANGE	COUNTY
6-14-18	7823	Zummal	len Z.	2	NW 36	28	21	CK
CUSTOMER Town	0:1 /	2.			TRUCK#	DRIVER	TRUCK#	DRIVER
TAKE INTO ADDDE	-00			1	730	AlaMad	Safety	Meet
16265	W 287-	5-A-			467	Kei Car	•	
CHY		STATE	ZIP CODE		503	KeeDel_		
Paola	C+A).	145	6607]	61673		FIGHT WY	2
JOB TYPE MA	LINE	HOLE SIZE	634	HOLE DEPTI	H 450	CASING SIZE & W	OTHER	<u> </u>
CASING DEPTH SLURRY WEIGH		DRILL PIPE SLURRY VOL		WATER gal/s	ak	CEMENT LEFT in	·	5
DISPLACEMENT	-	DISPLACEMEN	T PSI 200		00	RATE 4 ba		
REMARKS: HO	1 .	etins.	Establ:		rate. 1	1: xed +	pum pr	ed
100 \$ SE		ved by	74	SK PO	Blend	I-A plus	2% 98	21.
Cicculat		rent.	Displac	ed co	sing w	ith cle	an wa	ter
Closed	e valu	e.			0			
	7 1	\ 11.	1 (1	1 /				
	Joun 1	rilling,	Scotty 1	Wint	ion			
	Town !	120					1	11
						$-\Lambda$	ow N	1000
						1410	WO	
ACCOUNT CODE	QUANITY	or UNITS	DE	SCRIPTION o	f SERVICES or PR	-	UNIT PRICE	TOTAL
CED45D			PUMP CHARG	E		467	150000	
(E0002		10	MILEAGE			461	50000	
(ED711	MI	1	tonn	les		503	1000	
					50		266050	35
					hes	30% -	798 13	1862 35
CLODED	7	Li	D- BL	end I			99999	-
CL 3840 CL 3965		14#	1	NOT +	7		6730	
463700	do		Sel				15/120	-
					5	45 65 30%	21986	74634
						200 00 10	-31 10	TIE
					-00	ANINE	3	
						ANNE		
					ME	-	-	
						772		-48
Finvin 3737						7.56	SALES TAX ESTIMATED	26696
	V. 14	M.1 1		Ð	w/ -		TOTAL	2661
AUTHORIZTION	Nall	Rivela	A.	TITLE U	riber		DATE GY	4-12/67

I acknowledge that the payment terms, unless specifically amended 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 QES Pressure Pumping LLC (five Consolidated Oil Well Services LLC) the subject to these Terms and Conditions unless superseded 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

The operations, services, supplied, materials, personnel or goods to be provided ("Services" or "Products" as applicable) by QES Pressure Pumping LLC ("QES") will be provided to you as customer ("Customer") in accordance with the following terms and conditions ("Agreement"). QES and Customer may be referred to as "Party" or "Parties".

- Price and Taxes. Customer will pay QES for the Services or Products in accordance with QES' quoted
 price which exclude applicable taxes or process license fees. Customer shall pay all applicable taxes
 and process license fees related to the Services and/or Products. QES' prices are subject to change
 without notice.
- 2. Terms of Psyment. Customer will pay QES cash in advance for Services and Products unless QES has approved credit prior to the performance of the Services and/or delivery of the Products. Credit terms for approved accounts require full payment of the involved amount within 30 days from the date of involve. All involves not paid within 30 days with the charged as historest rate of 11/4/b per month or the maximum rate allowing upder applicabilitation law, synichayer at history. Customer will be responsible for any fees incurred by QES in the collection of any amounts owners to the payment of the pay
- 3. Proof of Services or Delivery of Products. QES will furnish verification of proof of Services pelfermed and Product delivered to Customer's representative at the time of performance of the Services or Product delivery. Customer agrees to sign and return such verification inditioling. Customer's acceptance of the
- 4. <u>Delivery or Comprisson</u>. Aftisibility and responsibility of QES ceases when (1) Products are delivered to the Customer by QES and no longer in the care, custody and control of QES or (2) when the carrier receives the Products institute in higher than 10 to the responsible for loss or damage to Products trained to for delays of centers in delivering goods, in case of shortage, non-commance, or apparent damage, it is the Customer's responsibility to secure written acknowledgement from the carrier before Customer accepts dainery. Additionally, QES will not be fable for any damage for delays in delivery or completion due to a Force Majeum (as defined below), acts or certainers of the Customer, third party material or maintracturing delays, impossibility or impassibility or impassibility or appraisationability of performance or eny other cause or completion due will be extended for a period equal to any such delay, and the purchase or service will not be votal, or voldable as a regulat themself. not be void or voidable as a result thereof.
- 5. Wolf or Service Site Conditions. Customer, having custody and control of the well and/or service site, and having superior forewisdge of the same and the conditions surrounding them, werrant that the well and/or service site will be in proper condition to receive and accommodate Services and Products. Upon QES' request, Customer will provide documentation to verify that the well or service site is adequate to support the Services and the delivery-of Products. Customer also warrants that CES' periodical exception of the service site and that any special equipment or road improvements required for such access will be the responsibility of Customer, unless otherwise agreed
- Chemical Handling and Hazardous Materials. Customer agrees that for any weats created as peri of
 the Services, Customer will be considered the "generator" for purposes of any applicable laws or
 regulations pertaining to the transportation, storage and handling of chemicals and hazardous materials.
- 7. Data. Data Transmission and Storoga, QES does not warrant or guarantee the accuracy of any research analysis, sulvey, or other data generated for the Services. QES is not responsible for an accidental or intendential interception of such data by third parties and it is the responsibility of the Customer to safeguard such data against loss including any need to secure digital or paper copies for
- 8. WARRANTES LIMITATION OF LIABILITY

 a) CIES warrants that the Services and Products will: (i) be free-from defects in meteriale and workmanship; (ii) be performed in a good and workmanship manner, in, accordance with good oilfield servicing practices; and (ii) configm to the plans, specifications and technical information provides within the products are accepted by Quistomer or QES* contractual obligations are met. In the event the QES describes or Products are accepted by Quistomer or QES* contractual obligations are met. In the event the QES continues that the Services or Products with after the summit period specified above, Quistomer discovers a defect in the Services or Products within that the Services or Products are defective, QES* statistic and QUISTOMER'S exclusive remedy in any cause of action (whether in trift, contract, breach of warranty or otherwise) arising out of the sate or use of any Services or Products upon their return to QES* or QUISTOMER'S police, the (i) replacement of such Services or Products upon their return to QES* or their return to QES* or the case of products or parts not wholly of QES* manufacture, QES* labelity will be limited to the extent of its recovery from the security of QES* manufacture, QES* labelity will be limited to the extent of its recovery from the security of the products of the case of products or parts not wholly of QES* manufacture, QES* labelity in the CES* in the case of products or parts not wholly of QES* manufacture, QES* labelity or CES. CES will not be false for any damages, claims, business or expenses of Customer resulting from such defects or for damages resulting from delays, loss of due, of other direct, inclined, incidental, publishe or or orbitogenation damages of any kind. QES will not be relified to the extent of its recovery from the recommended maintenance procedures; and (iii) products requiring replacement due to normal wear and leaf.
- b) EXCEPT FOR THE WARRANTIES EXPRESSLY STATED ABOVE, THERE ARE NO OTHER WARRANTIES. THE PARTIES EXPRESSLY EXCLUDE AND CUSTOMER WAIVES ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
- c) IN NO EVENT WILL QES' ENTIRE 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. TNDEMNIFICATION AND WAIVER OF CONSEQUENTIAL DAMAGES.
 9.1 For purpose of this Section 9, the following definitions will septly: "QES Oroug" means QES Pressure Purpping LLC, its perent company, and affiliated companies, and its and their officers, directors, employees, contractors, subcontractors and invitees. "Customer Group" means Customer, its perent (if any), subsidiary and affiliated companies, co-owners, co-venturers, partners and any entity with whom Customer has an economic interest with respect to the Services, including Customer's joint interest owners and pertners and its and their officers, directors, employees, contractors (not including QES), without the contractors and invited to the contractors and invited to the contractors and invited to the contractors.
- 9.2 QES INDEMNITY. QES AGREES TO PROTECT, DEFEND, INDEMNIFY AND HOLD HARMLESS CUSTOMER GROUP FROM AND AGAINST ALL CLAIMS, DEMAIDS AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER ARISING IN CONNECTION WITH THE SERVICES, ON ACCOUNT OF BOOLLY INJURY, ILLIESS, OR DEATH OF ANY MEMBER OF GES GROUP OR, DAMAGE TO OR LOSS OF PROPERTY OF ANY MEMBER OF GES GROUP.
- 9.3 CUSTOMER INDEMNITY, GUSTONER ACREES TO PROTECT, DEFEND, TIDEMINIFY AND HOLD HARMLESS GES GROUP FROM NAVO KOMMON SALL CLAMAC, DEMANDO, NAVO CALISES OF ACTIONOUTH THE SERVICES, ON ACCOUNT OF BODILY, MULTIPLIANCES, OR 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 INDEMMIFY QES GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS AND CAUSES OF ACTION OF EVERY KIND AND CHARACTER IN THE EVENTS OF: (I) LOSS OR DAMAGE TO ANY GEOLOGICAL FORMATION STRATA OR OLL OR GAS RESERVOIR OR MINERAL OR WATER RESOURCE BENEATH THE SUMFACE OF THE LAND OR WATER, (II) LOSS OR DAMAGE TO THE HOLE OR WELL, (III)

INPAIRMENT OF PROPERTY RIGHTS OR OTHER INTERESTS IN OR TO OIL, GAS, NIMERAL OR WATER RESOURCES, AND (NY REGAINING CONTROL OF ANY WILD WELL, OR OUT OF CONTROL WELL, UNDERGROUND OR ABOVE THE SURFACE, INCLUDING REMOVAL OF WRECK, DEBRIS, ENT, 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 Customer and GES that the responsibility for pollution shall be an follows:

(a) GES WILL ASSUME RESPONSIBILITY FOR CONTROL AND REMOVAL OF AND WILL PROTECT, DEFEND AND INDEMNITY CUSTOMER GROUP FROM AND AGAINST ALL CLAIMS, DEMANDS AND CAUSES OF ACTION OF EVERY KIND OF CHARACTER ARBING FROM POLLUTION OR CONTAINATION WHICH ORIGINATES ABOVE THE SURFACE OF THE OR OR WATER FROM THE EQUIPMENT OF ANY MEMBER OF QES GROUP MAINTAINED IN QES GROUPS CARE, CUSTODY AND CONTROL, AND ARISING FROM THE PERFORMANCE OF THE

SERVICES.

(b) CUSTOMER WILL ASSUME RESPONSIBILITY FOR CONTROL AND REMOVAL OF AND WILL PROTECT, DEFEND AND INDEMNIFY GES 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 OCCUR DURING THE CONDUCT OF OPERATIONS HEREUNDER, INCLUDING, BUT NOT LIMITED TO, POLLUTION RESULTING FROM FRE, BLOWOUT, CRATERING, SEEPAGE OR OTHER UNCONTROLLED FLOW OF OIL, GAS OR OTHER SUBSTANCE.

- 9.8 WAIVER OF CONSEQUENTIAL DAMAGES, NOTWITHSTANDING ANY PROVISION TO THE CONTRARY, CUSTOMER AND GES FURTHER AGREE THAT NEITHER PARTY WILL BE LIBBLE 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"). SUSTOMER AGREES TO INDEMNEY AND HOLD GES GROUP HARMLESS FROM AND AQAINST ANY AND ALL CLAIMS FOR SUCH LOSSES ASSERTED BY MEMBERS OF CUSTOMER GROUP. CES AGREES TO INDEMNEY 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 LASELITIES ASSUMED UNDER THIS AGREEMENT WILL BE WITHOUT LIMIT AND WITHOUT REGARD TO THE CADSE OR CAUSER, INCLIDING, WITHOUT LIMITATION, PREEXISTING CONDITIONS, UNSEAWORTHINESS, STRICT LABELITY, WILLFUL MISCOMDUCT, AND THE SOLE, JOINT, GROSS, OR CONCURRENT NEGLIGENCE OF ANY PARTY.
- 9.6. Each Party hereunder agrees to support its indefinity obligations with liability incurance coverage with limits of liability not less than ter million dollars (\$10,000,000). It is the express intention of the Parties that the indemnities contained herein apply to the fullest extent 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.
- THE SECTION 9 WILL SURVIVE THE TERRINATION OR EXPIRATION OF THIS AGREEMENT.
- 10. Issurance. All Insurance policies of either Paffy, in any way related to the Services, whether or not required by this Agreement, shall to the extent of the rate and liabilities assumed by such party: (i) name the other party group as additional insured (except for violent's compensation, CEE/COW, or professional liability policies), (ii) warks authorgation as to the other party group; and (iii) be primary and non-contributory to any insurance of the other party group.
- 17. Fonce Maleure. Except the obligation to make payments when due, neither QES nor Customer will be liable nor deemed to be in breach of this Agreement for any delay or failure in performance resulting from the acts of Ged, civil or millary subtretity, material change of lew, any governments laction, acts of public areamy, war, accidents, fires, explosions, earthquakes, floods, failure of transportation, national strikes, acute or unusual labor, material or equipment stortages, or any similar or dissimilar cause beyond the reasonable control of either Party. The Party so affected will as soon as such a cause overif occurs promptly notify the other Party in writing concerning the cause and the estimated effect and take reasonable-measures with proper dispatch by remedy the condition, in the event Customer declares a force stiguism occurrence, QES will be competinated at the standard daily rate for the materials and personnel that eve standing idle as a consequence of the force majoure oppurence until Customer terminates the work order or work measures.
- 12. Sereming Law, This Agreement will be governed by the laws of the State of Texas, without regard to its conflicts of law provisions. The Parties agree to submit to the exclusive jurisdiction of the federal or state courts located in Houston, Herris County, Texas with respect to any end all disputse that arise out of or are related in any way to the subject matter of this Agreement. This Section 12 will survive the termination or expiration of this Agreement.
- 13. Independent Contractor. QES will be an independent contractor with respect to the Services performed, and neither QES nor enyone employed by QES will be deemed for any purpose to be the employee, agent, servent, borrowed servant or representative of Custofiner.
- 14. Severability. In the event any provision of this Agreement is inconsistent with or contrary to any applicable few, rule or regulation, the provision will be desired modified to the extent required to comply, and the remaining-tests, as modified, will remain in full force and effect.
- 15. Walver, A wriver on the part of either Perry of any breach of any term, provision or condition of this Agreement will not constitute a precedent and not bind either Party hereto to a walver of any succeeding or other breach of the same or any other term, provision or condition of this Agreement.
- 16. Entire Aurenment: This Agreement contains the entire agreement of the Parties with regard to the subject matter hereof and supersedes any prior onli and written egreements, contracts, representations or warranty between the Parties relating to the subject matter hereof. No amendment or modification of this Agreement will be effective unless it is in writing and signed by an authorized representative of each Party. If the Parties enter into a Measter Service Agreement, then any term or condition herein which conflicts with the provisions of such Measter Service Agreement will be deemed invalid.