Confidentiality Requested: Yes No

Address 1: ____

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

1235260

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

R. ____ East West

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

	WEEL HISTOITI - DESCIT	
OPERATOR: License #		API No. 15
Name:		Spot Description:
Address 1:		

Address 2:		Feet from North / 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:
☐ Oil ☐ WSW ☐ SWD □ Gas □ D&A □ ENHR	SIOW	Elevation: Ground: Kelly Bushing:
	Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)		Amount of Surface Pipe Set and Cemented at: Fee
Cathodic Other (Core, Expl., etc.):		Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:		If yes, show depth set: Fee
Operator:		If Alternate II completion, cement circulated from:
Well Name:		feet depth to:w/sx cm
Original Comp. Date: Original To	tal Depth:	
Deepening Re-perf. Conv. to EN	IHR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Conv. to GS	W Conv. to Producer	(Data must be collected from the Reserve Pit)
		Chloride content: ppm Fluid volume: bbls
		Dewatering method used:
		Location of fluid disposal if hauled offsite:
		Operator Name:
		Lease Name: License #:
Spud Date or Date Reached TD	Completion Date or	Quarter Sec TwpS. R East Wes
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							
Geologist Report Received							
UIC Distribution							
ALT I II III Approved by: Date:							

	Page Two	1235260
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTRUCTIONS. Chow important tang of formations populated	Datail all cares Report all	final conject of drill stome tasts giving interval tasted, 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).

Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
			RECORD Ne		on. etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADDITIONAL	CEMENTING / SQL	EEZE RECORD			
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used		Type and F	Percent Additives	

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

No

No

(If No, skip questions 2 and 3)

(If No, fill out Page Three of the ACO-1)

Depth

(If No, skip question 3)

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

Vented

s the hydraulic fractu	ring treatment information submitted to the chemical disclosure registry?	Yes No (If No, fill out Page Three o				
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)				

TUBING RECORD:	Size:	Set At:		Packer	r At:	Liner Run:	Yes	No	
Date of First, Resumed Prod	uction, SWD or ENH	R.	Producing Me	ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours	Oil Bl	bls.	Gas	Mcf	Wate	r	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITION OF GAS:			METHOD OF COMPLETION:			PRODUCTION INTERVAL:			

ed Sold Used on Lease	Open Hole Perf.	Dually Comp. (Submit ACO-5)	Commingled (Submit ACO-4)	
(If vented, Submit ACO-18.)	Other (Specify)		. ,	

Form	ACO1 - Well Completion
Operator	D & Z Exploration, Inc.
Well Name	East Gordon #I-5
Doc ID	1235260

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
SURFACE	9.825	7	20	20	PORTLAN D	10	NONE
PRODUC TION	5.625	2.825	6.2	916	50/50 POZ	124	NONE

CONSOLIDATED * Oil*Well Services, LLC		REMIT TO Consolidated Oil Well Services, LLC Dept. 970 P.O. Box 4346 Houston, TX 77210-4346			MAIN OFFICE P.O. Box 884 Chanute, KS 66720 620/431-9210,1-800/467-8676 Fax 620/431-0012		
INOICE					Invoice #	80195	
Invoice Date:	11/19/2014	Terms: Net 30	=========		Page	1	
901 N. ELM ST. ST. ELMO IL 624 USA	458			Gordon I-{			
6188293274 ========	Description					Totol	
6188293274 ====================================	Dscription		Qty	Unit Price	Discount(%)	======================================	
6188293274 ====================================	Dscription Cement Pumpe		1.00	1,085.00	0.00	1,085.00	
6188293274 ====================================	Cement Pumpe Mileage Charge	е	1.00 30.00	1,085.00 4.20	0.00	1,085.00 126.00	
6188293274 ====================================	Cement Pumpe Mileage Charg Casing Footag	e e	1.00 30.00 916.00	1,085.00 4.20 0.00	0.00 0.00 0.00	1,085.00 126.00 0.00	
6188293274 ====================================	Cement Pumpe Mileage Charge Casing Footage Min. Bulk Deliv	e e ery Charge	1.00 30.00 916.00 1.00	1,085.00 4.20 0.00 368.00	0.00 0.00 0.00 0.00	1,085.00 126.00 0.00 368.00	
6188293274 Part Number 5401 5406 5402 5407 5502C	Cement Pumpe Mileage Charge Casing Footag Min. Bulk Deliv 80 Vacuum Tru	e e ery Charge uck Cement	1.00 30.00 916.00 1.00 1.50	1,085.00 4.20 0.00 368.00 100.00	0.00 0.00 0.00 0.00 0.00	1,085.00 126.00 0.00 368.00 150.00	
6188293274 ====================================	Cement Pumpe Mileage Charge Casing Footag Min. Bulk Deliv 80 Vacuum Tru Poz Cement M	e e ery Charge ick Cement ix	1.00 30.00 916.00 1.00 1.50 124.00	1,085.00 4.20 0.00 368.00 100.00 11.50	0.00 0.00 0.00 0.00 0.00 30.00	1,085.00 126.00 0.00 368.00 150.00 998.20	
6188293274 ====================================	Cement Pumpe Mileage Charge Casing Footage Min. Bulk Deliv 80 Vacuum Tru Poz Cement M Premium Gel /	e e ery Charge uck Cement ix Bentonite	1.00 30.00 916.00 1.00 1.50 124.00 309.00	1,085.00 4.20 0.00 368.00 100.00 11.50 0.22	0.00 0.00 0.00 0.00 0.00 30.00 30.00	1,085.00 126.00 0.00 368.00 150.00 998.20 47.59	
6188293274 ====================================	Cement Pumpe Mileage Charge Casing Footage Min. Bulk Deliv 80 Vacuum Tru Poz Cement M Premium Gel / Sodium Chlorid	e e ery Charge lick Cement ix Bentonite de (Granulated	1.00 30.00 916.00 1.00 1.50 124.00 309.00 250.00	1,085.00 4.20 0.00 368.00 100.00 11.50 0.22 0.39	0.00 0.00 0.00 0.00 0.00 30.00 30.00 30.00	1,085.00 126.00 0.00 368.00 150.00 998.20 47.59 68.25	
6188293274 ====================================	Cement Pumpe Mileage Charge Casing Footage Min. Bulk Deliv 80 Vacuum Tru Poz Cement M Premium Gel / Sodium Chloric Kol Seal (50# E	e ery Charge uck Cement ix Bentonite le (Granulated BAG)	$\begin{array}{c} 1.00\\ 30.00\\ 916.00\\ 1.00\\ 1.50\\ 124.00\\ 309.00\\ 250.00\\ 620.00\end{array}$	1,085.00 4.20 0.00 368.00 100.00 11.50 0.22 0.39 0.46	0.00 0.00 0.00 0.00 30.00 30.00 30.00 30.00	1,085.00 126.00 0.00 368.00 150.00 998.20 47.59	
6188293274 Part Number 5401 5406 5402 5407 5502C 1124 1118B 1111 1110A	Cement Pumpe Mileage Charge Casing Footage Min. Bulk Deliv 80 Vacuum Tru Poz Cement M Premium Gel / Sodium Chlorid	e ery Charge uck Cement ix Bentonite le (Granulated BAG)	1.00 30.00 916.00 1.00 1.50 124.00 309.00 250.00	$\begin{array}{r} 1,085.00\\ 4.20\\ 0.00\\ 368.00\\ 100.00\\ 11.50\\ 0.22\\ 0.39\\ 0.46\\ 29.50\end{array}$	0.00 0.00 0.00 0.00 0.00 30.00 30.00 30.00	1,085.00 126.00 0.00 368.00 150.00 998.20 47.59 68.25 199.64 29.50	
6188293274 Part Number 5401 5406 5402 5407 5502C 1124 1118B 1111 1110A	Cement Pumpe Mileage Charge Casing Footage Min. Bulk Deliv 80 Vacuum Tru Poz Cement M Premium Gel / Sodium Chloric Kol Seal (50# E	e ery Charge uck Cement ix Bentonite le (Granulated BAG)	$\begin{array}{c} 1.00\\ 30.00\\ 916.00\\ 1.00\\ 1.50\\ 124.00\\ 309.00\\ 250.00\\ 620.00\\ 1.00\end{array}$	$\begin{array}{r} 1,085.00\\ 4.20\\ 0.00\\ 368.00\\ 100.00\\ 11.50\\ 0.22\\ 0.39\\ 0.46\\ 29.50\end{array}$	0.00 0.00 0.00 0.00 30.00 30.00 30.00 30.00 0.00	1,085.00 126.00 0.00 368.00 150.00 998.20 47.59 68.25 199.64	

Amount Due 3,775.76 if paid after 12/19/2014

		Tax:	99.06
		Total:	3,171.24

 BARTLESVILLE, OK
 EL DORADO,KS
 EUREKA, KS
 PONCA CITY, OK
 OAKLEY, KS
 OTTAWA, KS
 THAYER, KS
 GILLETTE, WY
 CUSHING, OK

 918/338-0808
 316/322-7022
 620/583-7554
 580/762-2303
 785/672-8822
 785/242-4044
 620/839-5269
 307/686-4914
 918/225-2650



FICKET	NUMBER	50

LOCATION Of Kowa KS FOREMAN Fred Meder

637

-

	1	-			0			
IELD	TICKET	&	Т	RE/	ATM	ENT	REP	ORT
			_					

Invoice # 901953

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

DATE								
	CUSTOMER #	WELL	NAME & NUMBER	२	SECTION	TOWNSHIP	RANGE	COUNTY
11.6.24	3392	E Gor	don # In	5 A	W 27	14	22	50
CUSTOMER	- /							DDIV(FD
D42	Explored ESS	tion			TRUCK #	DRIVER	TRUCK #	DRIVER
ALLING ADDRI					712	Fre Mad		
901	N Elm	SY -			495	Harber		
CITY		STATE	ZIP CODE		375	Gar Moo		
St E	Elmo	IL	62458		558 -	BUBIN		
OB TYPE L		HOLE SIZE	57/8 H	OLE DEPTH	540	CASING SIZE & W	EIGHT 278	EVE
CASING DEPTH	de t	DRILL PIPE		UBING			OTHER	
LURRY WEIGI		SLURRY VOL		ATER gal/sk		CEMENT LEFT in	CASING 2/2	Phy
				IIX PSI		RATE SBP	v	d
DISPLACEMEN	The second s	DISPLACEMEN		and the second	Colorest and			# 1.0
REMARKS: A	6/d Sate	ty mest	A.		ump ra	te. Mix +	pump lo	and a li
Flush	. mix+	Pump	124 SKS	50/50	or VII.X	Cemeit o	270 Curl S	10 Salt
<u>5[#] K</u>	OL Seal	ISK, Ce	ment to	s Sur	ace. F	Flush pu	no din	
clea	m. Disi	place a	1/2" Rubl	ber plu	e to c	asing TD	Pressv	re to
80	# PS1. Y	Nonitor	AVESSOV	e for	* 38 mi	n MIT.	Releaco	
Ares	sure to	Set 4	lost Va	lue. S	hut m	Casin		
pice						0		
						1		
				44		1.0	11-0.	
* Eva	ms Exerc	The Des	Inc J	COTT.		price	noun	
ACCOUNT	<u> </u>	•0	1					
ACCOUNT CODE	QUANITY	or UNITS	DESC	CRIPTION of SE	RVICES or PR	ODUCT	UNIT PRICE	TOTAL
UUDL								
5401	-	1	PUMP CHARGE			495		10850
5401.		1 Bomi				495		10850
5406		1 30m:	MILEAGE	£ . Xoo		495 495		/260-
5406 5402		16	MILEAGE	Footog		495		126°-
5406 5402 5407	Monimus	16 BRr	Mileage Casing Ton	miles		495 558		1260 NK 368
5406 5402	Monimus	16	Mileage Casing Ton	miles	Truck	495		126°= NK 368°
5406 5402 5407	Monimus	16 BRr	Mileage Casing Ton	miles		495 558		1260 NK 3680
5406 5402 5407	Monimus	16 BRr	Mileage Casing Ton	miles		495 558		1260 NK 368 1509
5406 5402 5407 5507C	Minimus	16 Bro 15 hr	MILEAGE Casing Ton 80 B	Miles BL Vac	Truck	<u>५</u> २ड उ <i>ड</i> ह 675		126° NK 365° 150°
5406 5402 5407 5502C	Montmus	16 BRr 13 hr 24 sks	MILEAGE Casing Ton 80 B	Miles BL Vac	Truck × Center	<u>५</u> २ड उ <i>ड</i> ह 675	147600	126°
5406 5402 5407 5507C 1124 118B	Monimus	16 Rr 15 hr 24 sks 30 9#	MILEAGE Casing Ton 80 B 50/50 Premi	Miles BL Vac Por Mi	Truck x Center	<u>५</u> २ड उ <i>ड</i> ह 675	1426 ⁰⁹	1260 NK 368 150
5406 5402 5407 5507C 1124 118B 1111	Montmus	16 24 sks 250#	MILEAGE Casing Ton 80 B 50/50 Premi Grau	Miles BL Vac Por Mi un Gi slated	Truck x Center	<u>५</u> २ड उ <i>ड</i> ह 675	142609 6798 9750	1260 NK 368 150
5406 5402 5407 5507C 1124 118B	Montmus	16 Rr 15 hr 24 sks 30 9#	MILEAGE Casing Ton 80 B 50/50 Premi	Miles BL Vac Por Mi un Gi slated	Truck x Center	<u>५</u> २ड उ <i>ड</i> ह 675	1426"9. 6728. 9758. 28539.	1260 NK 368 150
5406 5402 5407 5507C 1124 118B 1111	Montmus	16 24 sks 250#	MILEAGE Casing Ton 80 B 50/50 Premi Grau	Miles BL Vac Por Mi un Gi slated -al Mat	Truck x Cemen Salt	495 558 675	1426"9. 6798 9752 28539 187668	1260 NK 368 150
5406 5402 5407 5507C 1124 118B 1111	Montmus	16 24 sks 250#	MILEAGE Casing Ton 80 B 50/50 Premi Grau	Miles BL Vac Por Mi un Gi slated -al Mat	Truck x Cemen Salt	495 558 675	1426"9. 6798 9752 28539 187668	/26°
5406 5402 5407 5507C 1124 118B 1111	Montmus	16 24 sks 250#	MILEAGE Casing Ton 80 B 50/50 Premi Grau	Miles BL Vac Por Mi un Ge slated Mate	Truck x Center Salt Salt	495 558 675	1426"9. 6728. 9758. 28539.	126°
5406 5402 5407 5507C 1124 118B 1110A	Montmus	16 24 sks 250#	MILEAGE Casing Ton 80 B 50/50 Premi Gran Kol S	Miles BL Vac Por Mi un Ge slated -al Mater To	Truck x Center Salt Salt ss 30%	495 558 675	1426"9. 6798 9752 28539 187668	36500
5406 5402 5407 5507C 1124 118B 1111	Montmus	16 24 sks 250#	MILEAGE Casing Ton 80 B 50/50 Premi Gran Kol S	Miles BL Vac Por Mi un Ge slated Mate	Truck x Center Salt Salt ss 30%	495 558 675	1426"9. 6798 9752 28539 187668	/26°
5406 5402 5407 5507C 1124 118B 1110A	Montmus	16 24 sks 250#	MILEAGE Casing Ton 80 B 50/50 Premi Gran Kol S	Miles BL Vac Por Mi un Ge slated -al Mater To	Truck x Center Salt Salt ss 30%	495 558 675	1426"9. 6798 9752 28539 187668	/26°
5406 5402 5407 5507C 1124 118B 1110A	Montmus	16 24 sks 250#	MILEAGE Casing Ton 80 B 50/50 Premi Gran Kol S	Miles BL Vac Por Mi un Ge slated -al Mater To	Truck x Center Salt Salt ss 30%	495 558 675	1426 09. 67 28 97 52 285 30 1876 68 - 5630	/26°
5406 5402 5407 5507C 1124 118B 1110A	Montmus	16 24 sks 250#	MILEAGE Casing Ton 80 B 50/50 Premi Gran Kol S	Miles BL Vac Por Mi un Ge slated -al Mater To	Truck x Center Salt Salt s.s 30%	495 558 675	142609. 6728 9750 28530 187668 -5630 3775-16	/26°
5406 5402 5407 5507C 1124 118B 1111 1110A	Montmus	16 24 sks 250#	MILEAGE Casing Ton 80 B 50/50 Premi Gran Kol S	Miles BL Vac Por Mi un Ge slated -al Mater To	Truck x Center Salt Salt s.s 30%	495 558 675	142609 6726 9750 28530 187665 - 5630 - 5630 - 5630 - 5630	126° NK 365° 150° 13136 295
5406 5402 5407 5507C 1124 118B 1110A	Montmus	16 24 sks 250#	MILEAGE Casing Ton 80 B 50/50 Premi Gran Kol S	Miles BL Vac Por Mi un Ge slated -al Mater To	Truck x Center Salt Salt s.s 30%	495 558 675	142609. 6728 9750 28530 187668 -5630 3775-16	/26°

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.



In consideration of the prices to be charged for Consolidated Oil Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay COWS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

(a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a 'claim') for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS, Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage or reservoir damage caused by (i) loss of circulation, coment invasion, coment misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) subsurface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) COWS makes no guarantee of the effectiveness of any COWS' products, supplies or materials, or the results of any COWS' treatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS' personnel will use their best efforts in gathering such reformation and their best judgement in interpreting it, but Customet agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.

(e) COWS may buy and re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that COWS is not an agent or dealer for the companies who minufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and dust the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.



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Oil & Gas Well Drilling Water Wells Geo-Loop Installation

Phone: 913-557-9083 Fax: 913-557-9084

Paola, KS 66071

WELL LOG D & Z Exploration, Inc. East Gordon # I-5 API # 15-091-24,311 November 5 - November 6, 2014

12 soil & clay 12 35 shale 47 4 lime 51 5 shale 56 18 lime 74 8 shale 82 9 lime 91 8 shale 99 20 lime 119 16 shale 135 18 lime 153 8 shale 161 59 lime 220 20 shale 161 59 lime 220 20 shale 267 19 shale 267 21 lime 288	Thickness of Strata	Formation	Total
4 lime 51 5 shale 56 18 lime 74 8 shale 82 9 lime 91 8 shale 99 20 lime 119 16 shale 135 18 lime 153 8 shale 161 59 lime 220 20 shale 240 8 lime 248 19 shale 267 21 lime 288	12	soil & clay	12
5 shale 56 18 lime 74 8 shale 82 9 lime 91 8 shale 99 20 lime 119 16 shale 135 18 lime 153 8 shale 161 59 lime 220 20 shale 240 8 lime 248 19 shale 267 21 lime 288	35	shale	47
18 lime 74 8 shale 82 9 lime 91 8 shale 99 20 lime 119 16 shale 135 18 lime 153 8 shale 161 59 lime 220 20 shale 240 8 lime 248 19 shale 267 21 lime 288	4	lime	51
8 shale 82 9 lime 91 8 shale 99 20 lime 119 16 shale 135 18 lime 153 8 shale 161 59 lime 220 20 shale 240 8 lime 248 19 shale 267 21 lime 288	5	shale	56
9 lime 91 8 shale 99 20 lime 119 16 shale 135 18 lime 153 8 shale 161 59 lime 220 20 shale 240 8 lime 248 19 shale 267 21 lime 288	18	lime	74
8 shale 99 20 lime 119 16 shale 135 18 lime 153 8 shale 161 59 lime 220 20 shale 240 8 lime 248 19 shale 267 21 lime 288	8	shale	82
20 lime 119 16 shale 135 18 lime 153 8 shale 161 59 lime 220 20 shale 240 8 lime 248 19 shale 267 21 lime 288	9	lime	91
16shale13518lime1538shale16159lime22020shale2408lime24819shale26721lime288	8	shale	99
18 lime 153 8 shale 161 59 lime 220 20 shale 240 8 lime 248 19 shale 267 21 lime 288	20	lime	119
8 shale 161 59 lime 220 20 shale 240 8 lime 248 19 shale 267 21 lime 288	16	shale	135
59 lime 220 20 shale 240 8 lime 248 19 shale 267 21 lime 288	18	lime	153
20 shale 240 8 lime 248 19 shale 267 21 lime 288	8	shale	161
8 lime 248 19 shale 267 21 lime 288	59	lime	220
19 shale 267 21 lime 288	20	shale	240
21 lime 288	8	lime	248
	19	shale	267
46 shale 334	21	lime	288
-0 Silale 504	46	shale	334
25 lime 359	25	lime	
7 shale 366	7	shale	366
33 lime 399	33	lime	399
4 shale 403	4	shale	403
6 lime 409 base of the Kansas City	6	lime	409 base of the Kansas City
174 shale 583	174	shale	
6 lime 589	6	lime	589
9 shale 598	9	shale	598
8 lime 606	8	lime	606
17 shale 623	17	shale	623
3 lime 626	3	lime	626
8 shale 634		shale	634
3 lime 637		lime	637
2 shale 639	2	shale	639
4 lime 643	4	lime	643
25 shale 668	25	shale	668
2 lime 670	2	lime	670
6 shale 676	6	shale	676
1 lime 677	1	lime	
55 shale 732	55	shale	
1 lime 733	1	lime	

East Gordon # I-5	F	Page 2
5	shale	738
1	lime	739
10	shale	749
3	badly broken sand	752 odor
27	shale	779
1	lime	780
91	shale	871
4	oil sand	875 good saturation and bleeding
2	broken sand	877 white silty sand and oil sand
2	oil sand	879 oil sand clean
2	broken sand	881 oil sand and grey shale, good bleeding
31	shale	912
1	lime	913
47	shale	960 TD

Drilled a 9 7/8" hole to 24' Drilled a 5 5/8" hole to 960'

4

12

Set 24' of 7" threaded and coupled surface casing cemented with 6 sacks of cement.

Set 917' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, 1 clamp