

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

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 # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(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 #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

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: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No TCores aken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, 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 / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	--	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--





ELI101

12/10

Elite Cementing & Acidizing of KS, LLC

810 E 7th, PO Box 92  
Eureka, KS 67045



Date	Invoice #
11/23/2015	2626

Bill To	
Colt Energy Inc. PO Box 388 Iola, KS 66749	
Customer ID#	1003

Job Date	11/19/2015
Lease Information	
Schafer C5-14	
County	Woodson
Foreman	KM

15-207-29302

Item	Description	Qty	Rate	Amount
C102	Cement Pump-Longstring	1	840.00	840.00
C107	Pump Truck Mileage (one way)	25	3.95	98.75
C201	Thick Set Cement	150	19.50	2,925.00T
C208	Pheno Seal	300	0.60	180.00T
C206	Gel Bentonite	300	0.20	60.00T
C214	Cottonseed Hulls	45	0.45	20.25T
C108A	Ton Mileage (min. charge)	1	345.00	345.00
C403	4 1/2" Top Rubber Plug	1	45.00	45.00T
D101	Discount on Services		-64.18	-64.18
D102	Discount on Materials		-161.52	-161.52T

APPROVED JA 12/2/2015

We appreciate your business!

Phone #	Fax #	E-mail
620-583-5561	620-583-5524	rene@elitecementing.com

Send payment to:  
Elite Cementing & Acidizing of KS, LLC  
PO Box 92  
Eureka, KS 67045

Subtotal	\$4,288.30
Sales Tax (7.5%)	\$230.15
Total	\$4,518.45
Payments/Credits	\$0.00
<b>Balance Due</b>	<b>\$4,518.45</b>

106000  
D15028203

NOV 25 RECD



810 E 7<sup>TH</sup>  
 PO Box 92  
 EUREKA, KS 67045  
 (620) 583-5561



**Cement or Acid Field Report**

Ticket No. **2626**  
 Foreman Kevin McCoy  
 Camp EUREKA

15-207-28302

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
11-19-15	1003	SCHAFFER CS-14	22	26S	14E	Woodson	Ks
Customer <u>Colt Energy Inc.</u>			Unit # 105		Driver DAN G.		Unit #
Mailing Address <u>P.O. Box 398</u>			Unit # 113		Driver CHRIS B.		
City <u>Toia</u>			State <u>Ks</u>		Zip Code <u>66749</u>		

Job Type LONGSTRING Hole Depth 1404' Slurry Vol. 47 BBL Tubing \_\_\_\_\_  
 Casing Depth 1374' Hole Size 6 3/4" Slurry Wt. 13.7\* Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 4 1/2" 10.5\* Cement Left in Casing 4' SJ Water Gal/SK 9.0 Other \_\_\_\_\_  
 Displacement 22.2 BBL Displacement PSI 900 Bump Plug to 1300 PSI BPM \_\_\_\_\_

Remarks: SAFETY Meeting: Rig up to 4 1/2" casing. BREAK circulation w/ 5 BBL fresh water. Pump 300\* Gel Flush w/ HULLS, 5 GBL water SPACER. MIXED 150 SKS THICK SET CEMENT w/ 2\* PHENOSEAL/SK @ 13.7\*/gal, yield 1.75 = 47 GBL SLURRY. wash out pump & lines. Shut down. Release Plug. Displace Plug to Seat w/ 22.2 BBL fresh water. Final Pumping Pressure 900 PSI. Pump Plug to 1300 PSI. wait 2 mins. Release Pressure. Float Held. Shut in @ 0 PSI. Good Cement Returns to SURFACE = 2 GBL SLURRY. Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 102	1	Pump Charge	840.00	840.00
C 107	25	Mileage	3.95	98.75
C 201	150 SKS	THICK SET CEMENT	19.50	2925.00
C 208	300*	PHENO SEAL 2*/SK	.60	180.00
C 206	300*	GEL FLUSH	.20	60.00
C 214	45"	HULLS	.45	20.25
C 108 A	8.25 TONS	TOW MILEAGE	M/C	345.00
C 403	1	4 1/2" TOP RUBBER PLUG	45.00	45.00
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;">           590 &lt; 237.82 &gt;            #415 A. 45         </div>				
THANK YOU			Sub TOTAL	4514.00
			Sales Tax	242.27
Authorization <u>witnessed by Deb</u> Title _____			Total	4756.27

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.



12/10

# Bar Drilling, LLC

# INVOICE

1317 105th Rd  
Yates Center, KS 66783  
(719) 210-8806 ,(620) 625-3679

DATE: November 22, 2015  
INVOICE #

**BILL TO:**  
Colt Energy Inc.  
P.O. Box 388  
Iola, KS 66749

**FOR:** Schafer CS-14

15-207-29302

DESCRIPTION	Quantity	RATE	AMOUNT
set 40' of 8 5/8" surface casing with 12 sacks of cement		included	
Drilled 1404' 6 3/4" hole.	1.00	10125.00	10,125.00
2nd core	1.00	1500.00	1,500.00

APPROVED JA 12/2/2015

SUBTOTAL	\$	11,625.00
TAX RATE		
SALES TAX		
OTHER		
<b>TOTAL</b>	<b>\$</b>	<b>11,625.00</b>

66aw

D1502B109

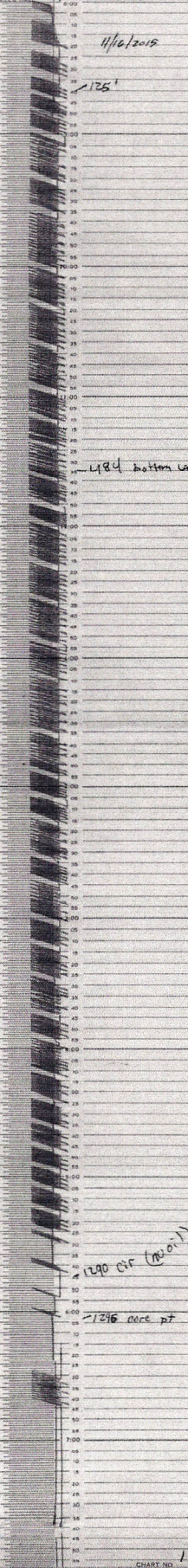
THANK YOU FOR YOUR BUSINESS!

DEC 2 RECD











OPERATOR: Left Branch of Schaefer

LOC: \_\_\_\_\_  
COUNTY: \_\_\_\_\_ STATE: KS

DATE ON: \_\_\_\_\_ TIME ON: \_\_\_\_\_  
T. B. OFF. \_\_\_\_\_  
FIELD OPERATOR: \_\_\_\_\_

ROLL NUMBER: \_\_\_\_\_  
11-18-2015

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

1324-1350 and  
Banks and  
not much dirt



**CONSOLIDATED**  
Oil Well Services, LLC

REMIT TO  
Consolidated Oil Well Services, LLC  
Dept: 970  
P.O. Box 4346  
Houston, TX 77210-4346

MAIN OFFICE  
1/10  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210, 1-800/467-8676  
Fax 620/431-0012

Invoice

Invoice#

806685

Invoice Date: 12/22/15

Terms: Net 30

Page 1

COLT ENERGY INC.

1112 RHODE ISLAND RD  
IOLA KS 66749  
USA  
6203653111

schafer  
cs-4, cs-10, cs-14, cs-17, cs-16

15-207-29302

CS-4

Part No	Description	Quantity	Unit Price	Discount(%)	Total
FE0251	Combo Unit, 1,300 HHP 1st (4) Four Hours	5.000	3,500.0000	60.000	7,000.00
FE1136	Flatbed Truck, Misc. Delivery	5.000	400.0000	60.000	800.00
FE0133	Flex-Hose Fluid Spotting Unit	5.000	500.0000	60.000	1,000.00
FC5005	15% Uninhibited HCL Acid (22 Baume)	250.000	3.9000	60.000	390.00
FC5251	CIA-2, Corrosion Inhibitor < 250 Degree F (Non-Acetylenic)	1.250	60.0000	60.000	30.00
FC5700	MaxSurf FBA (Surfactant/N.E./Remediation)	2.500	70.0000	60.000	70.00
FC5450	WG-1, Guar Gelling Agent	300.000	8.0000	60.000	960.00
FC5453	WG-2, CMHPG Gelling Agent	600.000	8.0000	60.000	1,920.00
FC5481	B-7LE, Enzyme Breaker	1.500	225.0000	60.000	135.00
FC5280	BIO-1 Powdered	14.000	35.0000	60.000	196.00
FE1054	3" Valve	5.000	500.0000	60.000	1,000.00
FE1000	Manual Ball Injector	5.000	600.0000	60.000	1,200.00
FC5176A	7/8" 1.3 Sp.Gr.RCN Ball Sealers	96.000	4.0000	60.000	153.60
FE0700	Proppant Delivery	1.000	1,000.0000	60.000	400.00
FE0002	Equipment Mileage Charge - Heavy Equipment	150.000	7.1500	60.000	429.00
WS2403	Water Transport (Frac Service)	24.000	120.0000	60.000	1,152.00
FP9003	16/30 Brown Sand	2,500.000	0.3000	60.000	300.00

1060000

CS4 D14028219 3993.42  
 CS10 D15027219 3993.42  
 CS14 D15028219 3993.42  
 CS17 D15030219 3993.43  
 CS16 D15029219 3993.43  
 19967.12

APPROVED JA  
12/24/2015

DEC 24 REC'D

BARTLESVILLE, OK  
918/338-0808

EL DORADO, KS  
318/322-7022

EUREKA, KS  
620/583-7554

PONCA CITY, OK  
580/782-2303

OAKLEY, KS  
785/872-8822

OTTAWA, KS  
785/242-4044

THAYER, KS  
620/838-5289

GILLETTE, WY  
307/688-4814

CUSHING, OK  
918/225-2660





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

Invoice

Invoice# 806685

Invoice Date: 12/22/15

Terms: Net 30

Page 2

COLT ENERGY INC.

1112 RHODE ISLAND RD  
 IOLA KS 66749  
 USA  
 6203653111

schafer  
 cs-4,cs-10,cs-14,cs-17,cs-16

Tax: 11.52  
 Total: 19,967.12



**CONSOLIDATED**  
Oil Well Services, LLC

CS-4  
CS-10  
CS-14  
CS-17  
CS-16

5017  
4924

TICKET NUMBER 51159

LOCATION Thayer

PO BOX 864 STREET, CHANUTE, KS 66729  
820-431-8210 OR 800-467-8676

15-207-29302

FIELD TICKET

DATE 12-17-15	CUSTOMER ACCT # 1828	WELL NAME Schafer	QTR/OTR - / ✓	SECTION 22	TWP 26S	RGE 14E	COUNTY WO	FORMATION Bartlesville
CHARGE TO Colt Energy Inc				OWNER				
MAILING ADDRESS				OPERATOR				
CITY & STATE				CONTRACTOR				

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	UNIT PRICE	TOTAL AMOUNT
FE0251	5	PUMP CHARGE 1350 Combo		17500-
FE 1136	5	Iron truck		2000.00
FE0133	5	Acid spotter		2500-
FC5005	250 gal	15% HCL acid		975.-
FC5251	1 1/4	Inhibitor		75.-
FC5700	2 1/2	Maxsurf		175.00
FC6159	customer formation			
FC5450	300 #	Frac gel GA-40W	8.00	2400-
FC5453	600 #	Frac gel GA-30W ecopoly	8.00	4800-
FC5481	1 1/2	Breaker		337.50
FC5280	14 #	Biocide		490-
FE1054	5	3" Frac valve		2500-
FE1000	5	Ball injector		3000-
FC5176A	96	1.35G 7/8" Ballsealers		384.-
		BLENDING & HANDLING		
FE0700	501	TON-MILES		1000
		STAND BY TIME		
FE0002	150	MILEAGE Mobilization X3 P,S,I		1072.50
WS2403	24 hrs	WATER TRANSPORTS - 3		2880-
		VACUUM TRUCKS		
FP9003	2,500 #	FRAC SAND 16-30		750-
FP9004	23,500 #	12-20		7050-
				28.80
				49977.50
		Less - Co. disc		
		ESTIMATED TAX		11,761.11

CUSTOMER or AGENTS SIGNATURE

COWS FOREMAN

Bratt Busby

CUSTOMER or AGENT (PLEASE PRINT)

DATE

12-17-15

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 services on the back of this form are in effect for services identified on this form.

44-75331. 49-62





**CONSOLIDATED**  
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720  
620-431-4210 or 800-467-8676

3rd well

TICKET NUMBER 61238  
FIELD TICKET REF # 51159  
LOCATION Thayer  
FOREMAN Brett Burby

**TREATMENT REPORT**  
**FRAC & ACID**

15-207-29302

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-17-15	1828	Schafer CS-14	22	26S	14E	WO
CUSTOMER			TRUCK #		DRIVER	
Colt Energy Inc			754		Josh	
MAILING ADDRESS			745		Landon	
CITY			482		Mark	
STATE			582		Gary	
ZIP CODE			7351221		George	
			620795		Tanks	

**WELL DATA**

CASING SIZE <u>4 1/2</u>	TOTAL DEPTH
CASING WEIGHT	PLUG DEPTH
TUBING SIZE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
<u>1298-1306 1 1/2</u>	<u>Bartlesville</u>
<u>1310-</u>	
<u>1320 2 1/2</u>	
<u>1330 2 1/2</u>	

**TYPE OF TREATMENT**

Acid spot + Frac

**CHEMICALS**

Breaker  
Acid  
Inhibitor  
Maxsurf

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI
PAD	30	20			BREAKDOWN 1000
16-30 sand		20	1.5-1.0	500#	START PRESSURE
12-20 sand		20	1.5	500#	END PRESSURE
12-20 (5) balls		20	2.0		BALL OFF PRESS
12-20 (5) balls		20	2.0	1000#	ROCK SALT PRESS
12-20 (5) balls		20	2.0	1000#	ISIP 400
12-20 (5)		18	2.0	1000#	5 MIN 350
12-20 (5) balls / locked off		15-1.0		1000#	10 MIN 325
12-20 Released Finish		18	2.0	1,000#	15 MIN 325
12-20 frac		18	2.0	1,000#	MIN RATE
FLUSH CASING	22	19			MAX RATE
Release balls to T.D. X 2			TOTAL	5,000#	DISPLACEMENT 21.6
OVERFLUSH	10	20	SAND		
TOTAL BBL'S	187				

**REMARKS:**

Spotted 50 gal -15% HCL acid on perfs

Location 11:15 AM - 12:15 PM

50 miles

AUTHORIZATION

TITLE

DATE 12-17-15

Terms and Conditions are printed on reverse side.



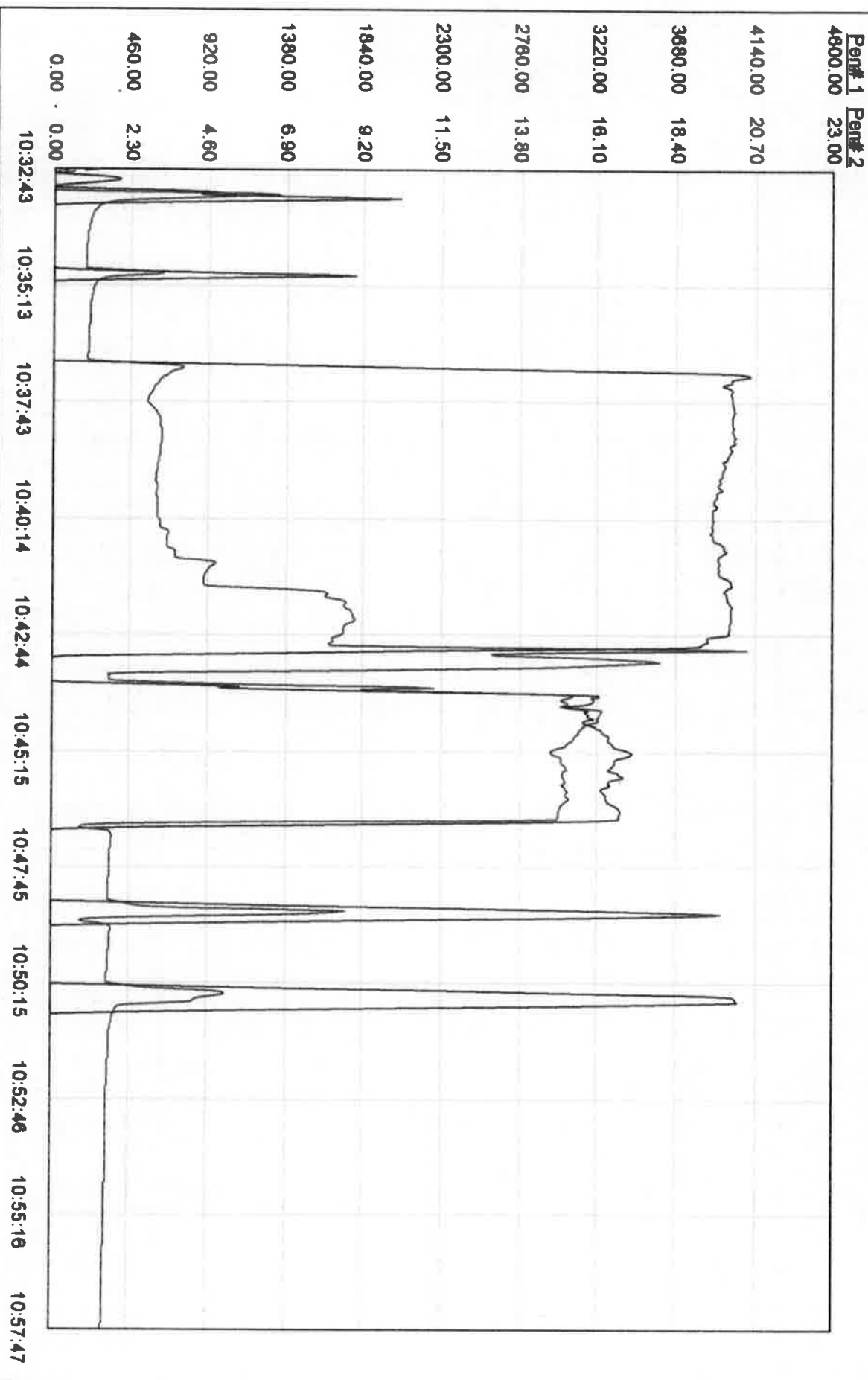
SERVICE COMPANY: C.O.W.S.  
 TICKET NO: 61238  
 CUSTOMER NAME: COLT ENERGY INC.  
 WELL NAME: SCHAFER CS-14  
 WELL LOCATION: SEC 22-26S-14E WO. CO.

DATE RECORDED: 12/17/2015  
 JOB NO:  
 UNIT DESCRIPTION: BARTLESVILLE  
 UNIT NOTES: ACIDSPOT + FRAC  
 FILE NAME: COLTENERGYINC\_15\_12\_17\_#3.csv



Pen# 1: Pump Pressure ( Pressure : psi )

Pen# 2: Pump Rate ( Flowrate : bpm )





Well #: Schafer CS-14 Formation: Bartlesville  
 Type: Producer

Water: formation water  
 Perforations: 1298 - 1302 Shots 17  
 1304 - 1306 Shots 9  
 1310 - 1316 Shots 25  
 1319 - 1321 Shots 9  
 1325 - 1330 Shots 21 81  
 Acid / 15% HCl 50 gallons  
 Breaker 0.0625 gallons  
 Frac Gel 200 lbs  
 30 lb/gal

Total Water 159 Bbls  
 6664 gallons

7/8" Rubber Ball Sealers: 20 balls  
 Pipe inside diameter 4 inches  
 Volume to load Pipe  
 Bbls / ft = 0.015541667  
 Depth 1330  
 Volume, bbls = 20.67041768

Total Bbls Rate Description  
 21 Load pipe  
 0-6 Start 1st break

Interval Bbls	Frac	Description	Pounds of Sand	5,000	Total	Remaining
9	30	12-21 Pad				
12	42	21 Start 1# 15/30	504	504	4,496.00	
107	149	21 Start 1# 12/20	4494	4,998		2.00
10	159	21 Start flush ISIP				





4330 Shawnee Mission Plaza  
Suite 233  
Fairway, KS 66206  
Phone: 913-238-0010



*Dec 17<sup>th</sup>  
9:00 AM  
5 SPT r FRACT.*

# Fax

<b>To:</b> Rick Bell	<b>From:</b> John Antemari
<b>Fax:</b> 620-431-0012	<b>Pages:</b> 7
<b>Phone:</b> 620-431-0210	<b>Date:</b> 12/11/2015
<b>Re:</b> Schafer CS-4, Schafer CS-10, Schafer CS-14, Schafer CS-16, and Schafer CS-17.	

Urgent     For Review     Please Comment     Please Reply     Please Recycle

• **Comments:**

Attached are the fracturing procedures for Schafer CS-4, Schafer CS-10, Schafer CS-14, Schafer CS-16, and Schafer CS-17. We will start with the Schafer CS-4. The Schafer lease is located south and west of Yates Center, Kansas. From Yates Center travel west along 54 Hwy for approximately 8 miles to Fox Rd, turn south on Fox Rd, travel 4 miles to 40th Rd and turn east, travel 1/2 miles on 40th Rd to Fawn Rd, turn south on Fawn Rd and travel 1/2 miles to 35th Rd, turn east on 35th Rd to the Schafer lease.

The Schafer CS-4 is completed with 4 1/2" casing but we will be treating through 2 3/8" tubing and packer. Please bring chains to chain the tubing down. The Schafer CS-10, Schafer CS-14, Schafer CS-16, and Schafer CS-17 are completed with 4 1/2" casing.

These wells are scheduled for treatment on Thursday December 17 at 9:00 AM.

There is water stored in two frac' tanks at our Louk tank battery. We may require additional water. We will have a frac' tank at our Iola office filled with water. The transport can pick up a load beforehand.

Spot 50 gallons of 15% HCl acid in each well.



December 11, 2015

The treatments will use 30# gel with biocide and 4,000#/8,000# of sand (500# of 16/30 and 3,500#/7,500# 12/20 sand).

Please bring a frac valve for these wells (1 for 2 3/8" and 4 for 4 1/2" casing).

Call me at the office (913-236-0016) if you have any questions.

50 gal SPOTS  
30# GEL  
 BIOCIDE

2-40 SKS, 2 50 SKS, 1-80 SKS  
 BALLS.



## End of Well Report & Formation Tops

### Well: Schafer CS14

3196 FSL 246FEL

SEC 22-T26S-R14E

Woodson Co., Kansas

API # 15-207-29302

Elevation: 951 est based on surrounding surveyed locations

Drilling Contractor: BAR Drilling, LLC

Spud: 11/13/2015

Surface Casing: 40.5' of 8 5/8" csg, cmtd w/12 sx

Under Surface: 11/16/2015

Drilling Fluid: Water "native mud" and a little polymer

Production Bore Hole: 6.75"

Rotary Total Depth (RTD): 1405

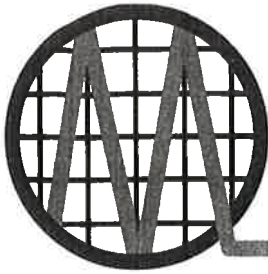
Geophysical E-Log(s): Osage Wireline

Production Casing: 1394.35' of 4 1/2" csg, 10.5#/ft, includes 4' cmt pup jt,  
cmtd s/150 sx (11/19/2015)

### FORMATION TOPS

Formation Member	DL/SPL Tops	E-Log (Rdd)	Datum (MSL)
Kansas City	564	564	382.0
Stark SH	654	654	292.0
Hushpuckney SH	693	693	253.0
Base of KC	724	724	222.0
Old DL Base KC	740	740	206.0
Lenapah LS	836	836	110.0
Weiser SS	938	938	8.0
Mulberry Coal	972	972	-26.0
Pawnee LS	980	980	-34.0
Myric Station LS	995	995	-49.0
Anna (Lex. Coal Zn) SH	999	999	-53.0
Fort Sct LS	1025	1025	-79.0
Little Osage (Sum Coal Zn) SH	1043	1043	-97.0
Excello SH	1057	1057	-111.0
Mulky Coal	1061	1061	-115.0
Squirrel SS	1069	1069	-123.0
Bevier Coal	1122	1122	-176.0
Verdigris LS	1136	1136	-190.0
Croweburg "V" SH	1139	1139	-193.0
Fleming Coal	1178	1178	-232.0
Mineral Coal	1194	1194	-248.0
Scammon Coal	1212	1212	-266.0
Tebo SH	1244	1244	-298.0
Tebo Coal	1254	1254	-308.0
Bartlesville SS	1295	1295	-349.0
Mississippi LS	1402	1402	-456.0





# MIDWEST SURVEYS

LOGGING • PERFORATING • CONSULTING • M.I.T. SERVICES

P.O. Box 68 • Osawatomie, KS 66064  
Phone 913-755-2128 • Fax 913-755-6533

## Perforation Record

**Company:** COLT ENERGY, INC.

**Lease/Field:** SCHAFFER LEASE 15-207-29302

**Well:** # CS-14

**County, State:** WOODSON COUNTY, KANSAS

**Service Order #:** 34338

**Purchase Order #:** N/A

**Date:** 12/11/2015

<b>Perforated @:</b>	1298.0 TO 1302.0	17 PERFS	} Bartlesville
	1304.0 TO 1306.0	9 PERFS	
	1310.0 TO 1316.0	25 PERFS	
	1319.0 TO 1321.0	9 PERFS	
	1325.0 TO 1330.0	21 PERFS	

**Type of Jet, Gun or Charge** 3 3/8" DP 19 GRAM TUNGSTEN EXPENDABLE CASING GUN

**Number of Jets, Guns or Charges:** EIGHTY ONE (81)

**Casing Size:** 4 1/2"