

Confidentiality Requested:

Yes No

## Kansas Corporation Commission Oil & Gas Conservation Division

1250076

Form ACO-1
August 2013
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. 15				
Name:	Spot Description:				
Address 1:	SecTwpS. R 🔲 East 🗌 West				
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: ()	□NE □NW □SE □SW				
CONTRACTOR: License #	GPS Location: Lat:, Long:				
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxx)				
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84				
Purchaser:	County:				
Designate Type of Completion:	Lease Name: Well #:				
New Well Re-Entry Workover					
☐ Oil       ☐ WSW       ☐ SHOW         ☐ Gas       ☐ D&A       ☐ ENHR       ☐ SIGW         ☐ OG       ☐ GSW       ☐ Temp. Abd.         ☐ CM (Coal Bed Methane)       ☐ Cathodic       ☐ Other (Core, Expl., etc.):         If Workover/Re-entry: Old Well Info as follows:         Operator:	Producing Formation:  Elevation: Ground: Kelly Bushing: Feet  Total Vertical Depth: Plug Back Total Depth: Feet  Multiple Stage Cementing Collar Used? Yes No  If yes, show depth set: Feet  If Alternate II completion, cement circulated from: sx cmt.				
Original Comp. Date: Original Total Depth:  Deepening Re-perf. Conv. to ENHR Conv. to SWD  Plug Back Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)				
Commingled         Permit #:	Chloride content: ppm Fluid volume: bbls  Dewatering method used:  Location of fluid disposal if hauled offsite:  Operator Name:				
GSW Permit #:	Lease Name:				
Spud Date or Date Reached TD Completion Date or 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



Operator Name:				_ Lease l	Name: _			Well #:		
Sec Twp	S. R	East V	West	County	:					
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres o surface test, along	sures, whether s with final chart(	shut-in pre s). Attach	ssure reac extra shee	hed stati t if more	c level, hydrosta space is neede	itic pressures, bot d.	tom hole temp	erature, flui	d recovery,
Final Radioactivity Lo- files must be submitte						gs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital el	ectronic log
Drill Stem Tests Taker (Attach Additional S		Yes	No				on (Top), Depth ar			mple
Samples Sent to Geo	logical Survey	Yes	☐ No		Nam	e		Тор	Da	tum
Cores Taken Electric Log Run		☐ Yes ☐ Yes	☐ No ☐ No							
List All E. Logs Run:										
			CASING		☐ Ne					
	0: 11-1-	· ·				ermediate, product		# O	T	d Damasat
Purpose of String	Size Hole Drilled	Size Cas Set (In O		Weig Lbs. /		Setting Depth	Type of Cement	# Sacks Used		d Percent itives
		AD	DITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Ce	ement	# Sacks	Used		Type and F	ercent Additives		
Perforate Protect Casing										
Plug Back TD Plug Off Zone										
Did you perform a hydrau	•					Yes	No (If No, ski	p questions 2 ar	nd 3)	
Does the volume of the to							= :	p question 3)	of the ACO	()
Was the hydraulic fractur	ing treatment information	on submitted to the	e chemicai d	isciosure re	gistry?	Yes	No (If No, fill	out Page Three	or the ACO-1	<i>)</i> 
Shots Per Foot		ION RECORD - I Footage of Each I					cture, Shot, Cement mount and Kind of Ma		d	Depth
TUBING RECORD:	Size:	Set At:		Packer A	i:	Liner Run:	Yes No			
Date of First, Resumed	Production, SWD or Ef	NHR. Prod	ducing Meth	ıod:		1				
			Flowing	Pumpin	g	Gas Lift C	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er B	bls. (	Gas-Oil Ratio		Gravity
DISPOSITIO	ON OF GAS:		M	METHOD OF	COMPLE	ETION:		PRODUCTION	ON INTERVA	
Vented Sold		Open		Perf.	Dually	Comp. Cor	mmingled			
	bmit ACO-18.)		(Specify)		(Submit )	ACO-5) (Sub	mit ACO-4)			



11/30/14

#### **REMIT TO**

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

MAIN OFFICE

P.O.Box884 Chanute,KS 66720 620/431-9210,1-800/467-8676 Fax 620/431-0012

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Page

Invoice# 802353

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Terms:

Net 30

D & Z EXPLORATION

901 N. ELM ST. ST. ELMO IL 62458 USA

6188293274

Invoice Date:

Cattle Tracks #5

Part No	Description	Quantity	Unit Price	Discount(%)	Total
5401	Cement Pumper	1.000	1,085.0000	0.000	1,085.00
5402	Casing Footage	912.000	0.2300	100.000	0.00
5407	Min. Bulk Delivery Charge	0.500	368.0000	0.000	184.00
5502C	80 Vacuum Truck Cement	1.500	100.0000	0.000	150.00
1124	Poz Cement Mix	128.000	11.5000	30.000	1,030.40
1118B	Premium Gel / Bentonite	415.000	0.2200	30.000	63.91
1111	Sodium Chloride (Granulated Salt)	269.000	0.3900	30.000	73.44
1110A	Kol Seal (50# BAG)	640.000	0.4600	30.000	206.08
4402	2 1/2 Rubber Plug	1.000	29.5000	0.000	29.50
				Subtotal	3,620.87
			Discounte	d Amount	798.54
			SubTotal After	Discount	2,822.33

\_\_\_\_\_

Amount Due 3,767.79 If paid after 12/30/14

Tax: 103.49

Total: 2,925.82



1270

LOCATION Ofawa KS
FOREMAN Carey Kennedy

FIELD TICKET & TREATMENT REPOR

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

CEMENT

DATE C	CUSTOMER#	WELI	NAME & NUM	BER	SECTION	TOWNSHIP	RANGE	COUNT
1126/14 :	3392	Cattlet	acks #	5	NE 33	14	28	JO
USTOMER	E 1 1	,			TRIVOV #	DRIVER	TRUCK#	DRIVER
MAILING ADDRESS	Explorati	OF			TRUCK#	asken	V 66.	Veeting
	N. Flus	(1)			666	Vaice	Julesty	- Cong
ITY ITY	1. CIU	STATE	ZIP CODE	1	548	Daruleha	1/	
~ /	4-11	11	62458	5-1-1	370	LL'k Fox	1	
ST ELMO		HOLE SIZE	5/8"	_I _ HOLE DEPT			WEIGHT 27/8	"EUE
CASING DEPTH_	2.5	DRILL PIPE	J 18	TUBING_		VAUITO DIZE & I	OTHER	1.1
SLURRY WEIGHT_		SLURRY VOL_		WATER gal/	k	CEMENT LEFT In		
DISPLACEMENT_		DISPLACEMEN		MIX PSI_		RATE 4.5 6		
REMARKS: Lald	A A	4	establish	1	boton wi	colt Dunc		E Gel
D. Hanna	1 / 1	bly fres	1		A A '	1000 128		Poru
2000	1 22	00/ 5	salt	4	11	er sk ce	west to	0.1
All d -	Wa Coa	A RUL				casins To	5.2	
ficthed ou	1		CO PSI	release		1/1	casine.	
rest water	, pressor	POL TO U	as Hol	( sections	A PIEMO!	2 JOHUL 15	rusing.	
			1					
							10	
						12	7	-
							/	
ACCOUNT	QUANITY (	or UNITS	DI	ESCRIPTION A	f SERVICES or PF	RODUCT	UNIT PRICE	TOTAL
CODE	40cmill							1005-0
5401			PUMP CHARG	GE			<b>_</b>	1005-
5706		cie	MILEAGE	// /				
5402	912'		casing	400tag				1840
	min			rileage	E			1 10 /
5500C1	1.5 h	V5	000	ac -				150.
								1 2 2
							1	
11711	124	Ohr.	50/ 5	2	C 044 01 -	_	1472 00	-
1124		Sts -t		Louix	curent	_	1472.00	-
11183	415 =	#	Gel	Zmix	cument	_	91.30.	•
11183	415 =	#	Salt		cement		91.30-	<i>e</i>
11183	415 =	#	Gel				91.30	e e
11183	415 =	#	Salt			rials	91.30	<i>e</i>
11183	415 =	#	Salt		nate	rials	91.30-	<i>t</i>
1118B	415 =	#	Gel Salt Kolsen	d	nate	rials 0% Subtotel	91.30	/373
11183	415 =	#	Gel Salt Kolsen		nate	rials 0% Subtestal	91.30	<i>t</i>
1118B	415 =	#	Gel Salt Kolsen	d	nate	rials 0% Subtotal	91.30. 104.91- 294.40 1962.61 588.76	/373
1118B	415 =	#	Gel Salt Kolsen	d	nate	rials 0% Subtotel	91.30	/373
1118B	415 =	#	Gel Salt Kolsen	d	nate	Subtestal	91.30. 104.91- 294.40 1962.61 588.76	1373
1118B	415 =	#	Gel Salt Kolsen	d	nate	rials 0% Subtatel 7.3259	91.30. 104.91- 294.40 1962.61 588.76 3558.03	1373.
1118B	415 =	#	Gel Salt Kolsen	d	nate	Subtestal	91.30. 104.91- 294.40 1962.61 588.76	1373

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

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' priess are subject to charge without series.

#### SERVICE CONDITIONS

Costomer starrants 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, austody, and control of the well, the drilling and production encipment of the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials and for any service whether to be performed.

- (a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as n '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 indennify 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, cement invasion, cement 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 information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage crising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.
- (c) COWS may bey and re-sell to Customer down hole equipment including but not limited to float equipment. DV tools, port coilars, type A & B packers, and Customer agrees that COWS is not an agent or dealer for the companies who manufacture 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 that the same are fire from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MURCHANTABILITY OR FUNESS 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.

Lease Owner: D Z

# Johnson County, KS Well:Cattle Track 5 Town Oilfield Service, Inc. (913) 837-8400 Commenced Spudding:

## WELL LOG

hickness of Strata	Formation	Total Depth		
10	Soil-Clay	10		
6	Shale	16		
7	Lime	23		
6	Shale	29		
15	Lime	44		
8	Shale	52		
9	Lime	61		
9	Shale	70		
23	Lime	93		
17	Shale	110		
20	Lime	130		
12	Shale	142		
18	Lime	160		
27	Shale	187		
16	Lime	203		
12	Shale	215		
9	Lime	224		
23	Shale	247		
20	Lime	267		
51	Shale	318		
17	Lime	335		
15	Shale	350		
18	Lime	368		
4	Shale	372		
4	Lime	376		
4	Shale	380		
15	Lime	395		
168	Shale	563		
5	Lime	568		
2	Shale	570		
3	Lime	573		
11	Shale	584		
4	Lime	588		
147	Shale	735		
5	Broken Sand	740		
10	Sandy Shale	750		
101	Shale	851		
1	Broken Sand	852		
2	Limey Sand	854		
3	Broken Sand	857		

Lease Owner: D Z

# Johnson County, KS Well:Cattle Track 5 Town Oilfield Service, Inc. (913) 837-8400

Commenced Spudding: 11/25/2014

3	Oil Sand	860
5	Broken Sand	865
10	Sandy Shale	875
65	Shale	940-TD
- 33	Cridio	04012
	-	
		-171-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
		A. A.

## **Short Cuts**

TANK CAPACITY

BBLS. (42 gal.) equals D<sup>2</sup>x.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

VOLI

746 WATTS equal 1 HP

# Log Book

Well No	5	
Farm_ Cett	le Track	_
(State)		Schnson (County)
3_3 (Section)	(Township)	2Z (Range)
For_ D + 2	Explora (Well Owner)	ntion

# Town Oilfield Services, Inc.

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

Farm: County	CA	ASING AN	ND TUBING	MEASU	JREMENTS	
State; Well No	Feet	In.	Feet	In.	Feet	In
Elevation						$\vdash$
Commenced Spuding 17-25 20 14						-
Finished Drilling 11-76 20 14						
Driller's Name						
Driller's Name						
Tool Dresser's Name Cole Helcom						
Tool Dresser's Name Cole Helcom						
Tool Dresser's Name	-					
Tool Dresser's Name			-			
Contractor's Name						
(Section) (Township) (Range)						
Distance from line,ft.		+				
Distance from line,ft.						
		$\vdash$				
,						
					-	
CASING AND TUBING				$-\parallel$		
RECORD				-		
			40.15			
10" Set 10" Pulled						
8" Pulled				_		
6¼" Set 6¼" Pulled						
4" Set 4" Pulled						
27/8et 911. 80 2" Pulled			-1-		,	

Thickness of Strata	Formation	Total ** Depth	Remarks
10	soil + clay	10	
6	shile	16	
7	time	23	
6	shak	29	
15	like	44	
8	Shele	52	
9	line	61	
9	shale	70	
23	lime	93	
17	Shek	110	
20	line	150	
12	shake	142	58
18	time	160	
27	shake	187	
16	time	203	
12	shake	215	
9	lime	224	
23	shale	247	
20	lime	267	
51	Shale	318	
17	line	335 /	
15	Shake	350	
18	line	368	
4	Shake	372	
4	lime	376	
4	Shale	380	
15	lime	395	,

-2-

CALJ
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		310	
Thickness of Strata	Formation	Total Depth	Remarks
168	shale	563	
5	lime	568	
2	Shake	570	
3	line	573	
11	Shahe	584	
4	line	588	
147	shake	735	
5	brown sand	740	
10	sandy stake	700	
101	Thate	851	
	broken sand	852	1 te bked.
Ž	liney send	854	good bleed,
3	broken sand	857	good bleed 70% earl 30% lings and
3	0) 55-01	850	good bleed good seturation
5	broken se a	865	- 500d bleed 80% sand 20% sandy shale
10	sandy shale	875	Good Sand To be darry short
65	Shole	940	TD
		-	1
		)	

# 940'TD 5% hole 911.80'.27/8 pipe 20' 7'Gurface 3 sachs cement Bonus Well

## **Rules of Thumb**

CEMENTING ANNULUS
2" ID - 61/4" -1 Sack5.8
2" ID - 8" - 1 Sack
3" ID - 8" - 1 Sack3.5
4" ID - 8" - 1 Sack 4.0
CAPACITY
2" - 1 BBL. equals256
2½"- 1 BBL. equals164"
3" - 1 BBL. equals115
4" - 1 BBL. equals 64
4 %"— 1 BBL. equals 43"
6¼"- 1 BBL. equals 26"
8" - 1 BBL. equals 16
WATER - CEMENT RATIO
5.5 gals. to 1 sack — 2½ hours
to thicken slurry

7.7 gals. to 1 sack - 2 hours

to thicken slurry