



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1205323
OIL & GAS CONSERVATION DIVISION

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 # _____

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 SIOW
- 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: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1205323

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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

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)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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CONSOLIDATED
Oil Well Services, LLC

268113

TICKET NUMBER 47187

LOCATION Ottawa KS

FOREMAN Fred Maden

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-9-14	7841	Mo Coy # 5	NE 32	15	21	FR
CUSTOMER <u>TDR Construction</u>						
MAILING ADDRESS <u>1207 N. 1st St.</u>						
CITY <u>Louisburg</u>		STATE <u>KS</u>	ZIP CODE			

TRUCK #	DRIVER	TRUCK #	DRIVER
712	Fred Mad		
495	Har Bek		
675	Kei Det		
510	Jas Ric		

JOB TYPE <u>Long string</u>	HOLE SIZE <u>5 7/8</u>	HOLE DEPTH <u>860</u>	CASING SIZE & WEIGHT <u>2 7/8 EUE</u>
CASING DEPTH <u>815</u>	DRILL PIPE <u>Baffle tubing</u>	<u>783</u>	OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>37' + Plug</u>
DISPLACEMENT <u>4.55 BBL</u>	DISPLACEMENT PSI	MIX PSI	RATE <u>5 BPM</u>

REMARKS: Hold crew safety meeting. Establish pump rate. Mix + Pump 100# Gel Flush. Mix + Pump 110 sks 50/50 Poz mix Cement 270 gal - Cement to surface. Flush pump + lines clean. Displace 2 1/2" Rubber plug to Baffle in casing. Pressure to 800# PSI. Release pressure to set float valve skt in casing.

TOS Drilling - Greg Perry

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	475	1085 ⁰⁰
5406	20 mi	MILEAGE	195	84 ⁰⁰
5402	815	Casing footage		N/C
5407	Minimum	Tax Miles	510	368 ⁰⁰
5502R	1 1/2 hrs	60 BBL Vac Truck	675	150 ⁰⁰
1124	110 SKS	50/50 Poz Mix Cement	1265 ⁰⁰	
1116B	285 [#]	Premium Gel	627 ⁰⁰	
		Material	1327 ²⁰	
		Less 30%	- 398 ²¹	
		Total		929 ³⁹
4402	1	2 1/2" Rubber Plug		295 ⁰⁰
				3148.03
		7.65%	SALES TAX	73 ³⁶
			ESTIMATED TOTAL	2219 ²⁵

completed

Ravin 3737

AUTHORIZATION [Signature] TITLE _____ DATE _____

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

Franklin County, KS
Well: McCoy 5
Lease Owner:TDR

Town Oilfield Service, Inc.
(913) 837-8400

Commenced Spudding:
05/08/2014

WELL LOG

Thickness of Strata	Formation	Total Depth
00-45	soil-clay	45
30	shale	75
5	lime	80
2	shale	82
17	lime	99
7	shale	106
10	lime	116
6	shale	122
19	lime	141
639	shale	180
23	lime	203
71	shale	274
23	lime	297
23	shale	320
6	lime	326
43	shale	369
1	lime	370
16	shale	386
9	lime	395
2	shale	397
8	lime	405
1	shale	406
4	lime	410
10	shale	420
21	lime	441
4	shale	445
3	lime	448
5	shale	453
5	lime	458
52	shale	506
12	sandy shale	518
65	shale	583
5	sand	588
49	shale	637
6	lime	643
20	shale	663
6	lime	669
14	shale	683
3	lime	686
15	shale	701

Short Cuts

TANK CAPACITY

BBLs. (42 gal.) equals $D^2 \times .14 \times h$
D equals diameter in feet.
h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals $BPH \times PSI \times .0004$

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 - $RPM \times d$ over $SPM \times R$
d - $SPM \times R \times D$ over RPM
SPM - $RPM \times D$ over $R \times d$
R - $RPM \times D$ over $SPM \times d$

BELT LENGTH - $2C + 1.57(D + d) + \frac{(D-d)^2}{4C}$

* Need these to figure belt length

TO FIGURE AMPS: $\frac{WATTS}{VOLTS} = AMPS$

746 WATTS equal 1 HP

Log Book

Well No. 5

Farm McCoy

KS Franklin
(State) (County)

32 15 21
(Section) (Township) (Range)

For TDR
(Well Owner)

Town Oilfield Services, Inc.
1207 N. 1st East
Louisburg, KS 66053
913-710-5400

Thickness of Strata	Formation	Total Depth	Remarks
0-45	Soil-Clay	45	
30	Shale	75	
5	Lime	80	
2	Shale	82	
17	Lime	99	
7	Shale	106	
10	Lime	116	
6	Shale	122	
19	Lime	141	
39	Shale	180	
23	Lime	203	
71	Shale	274	
23	Lime	297	
23	Shale	320	
6	Lime	326	
43	Shale	369	
1	Lime	370	
16	Shale	386	
9	Lime	395	
2	Shale	397	
8	Lime	405	
1	Shale	406	
4	Lime	410	
10	Shale	420	
21	Lime	441	
4	Shale	445	
3	Lime	448	

448

Thickness of Strata	Formation	Total Depth	Remarks
5	Shale	453	
5	Lime	458	
52	Shale	506	Hertha
12	Sandy Shale	518	
65	Shale	583	
5	Sand	588	No Oil
49	Shale	637	
6	Lime	643	
20	Shale	663	
6	Lime	669	
14	Shale	683	
3	Lime	686	
15	Shale	701	
3	Lime	704	
20	Shale	724	
3	Lime	727	
8	Shale	735	
3	Sand	738	Broken - Good Saturation
2	Lime	740	
2	Sand	742	Broken - Good Saturation
4	Sand	746	Solid - Good Saturation
6	Sand	752	Broken - Poor Saturation
30	Sandy Shale	782	
43	Shale	825	825
5	Sand	830	830
50	Shale	880	TD