



KANSAS CORPORATION COMMISSION 1091842
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34618
Name: Four Corners Oil, LLC
Address 1: PO BOX 638
Address 2:
City: WELLSVILLE State: KS Zip: 66092 +
Contact Person: Ray Groshong
Phone: (913) 238-7420
CONTRACTOR: License # 33715
Name: Town Oilfield Service
Wellsite Geologist: NA
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
 Conv. to GSW
 Plug Back: Plug Back Total Depth
 Commingled Permit #:
 Dual Completion Permit #:
 SWD Permit #:
 ENHR Permit #:
 GSW Permit #:

8/21/2012	8/22/2012	8/22/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-059-25951-00-00

Spot Description:
SE NE NE SE Sec. 23 Twp. 15 S. R. 20 East West
2145 Feet from North / South Line of Section
165 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Franklin
Lease Name: Groshong Well #: 4
Field Name: Baldwin

Producing Formation: Mississippi

Elevation: Ground: 1078 Kelly Bushing: 0

Total Depth: 919 Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 20 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: Feet

If Alternate II completion, cement circulated from:

feet depth to: 20 w/ 3 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 1500 ppm Fluid volume: 80 bbls

Dewatering method used: Evaporated

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

- Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Garrison Date: 09/10/2012



1091842

Operator Name: Four Corners Oil, LLC Lease Name: Groshong Well #: 4
 Sec. 23 Twp. 15 S. R. 20 East West County: Franklin

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets)	<input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	GammaRay	
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Electric Log Submitted Electronically (If no, Submit Copy)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run:			
GammaRay/Neutron/CCL			

CASING RECORD <input checked="" 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
Surface	9	7	10	20	Portland	3	50/50 POZ
Completion	5.6250	2.8750	8	871	Portland	102	50/50 POZ

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

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)	Depth
2	811.5-842.0	2" DML RTG	30

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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 (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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CONSOLIDATED
Oil Well Services, LLC

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

FIELD TICKET & TREATMENT REPORT
CEMENT

TICKET NUMBER 39524
LOCATION Ottawa KS
FOREMAN Fred Maden

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8/22/12		Grashong # 4	SE 23	15	20	FR
CUSTOMER Four Corners Oil			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			506	Fire Mad	Safety	Weg
			495	Nor Bec	HB	Weg
			675	Kai Det	ICD	
			548	MikHaa	MH	
CITY	STATE	ZIP CODE				

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 919' CASING SIZE & WEIGHT _____
 CASING DEPTH 871' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 2 1/2" Plug
 DISPLACEMENT 5.0688 DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 BPM

REMARKS: Establish pump rate. Mix Pump 100' Gal Flush. Mix Pump
 102 SKS 50/50 Por Mix Cement 2' Last Cement to Surface
 Flush pump & lines clean. Displace 2 1/2" Rubber Plug to
 casing TD. Pressure to 500# PSI. Release pressure to
 set float valve. Shut in Casing.

TOS Drilling - Chad

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1030.00
5406	20 mi	MILEAGE	495	9900.00
5402	871	Casing footage		N/A
5407	Minimum	Ten Miles	548	350.00
55020	1 1/2	80 BBL Vac Truck		135.00
1124	102 SKS	50/50 Por Mix Cement		1176.90
1186	272 #	Premium Lub		5713
4462	1	2 1/2" Rubber Plug		28.00
			7.8%	SALES TAX
				93.76
				ESTIMATED TOTAL
				2890.78

SCANNED

Rev'n 3737

AUTHORIZATION _____ 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: Groshong # 4
Lease Owner: 4 Corners

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

Commenced Spudding:
8/21/2012

WELL LOG

Thickness of Strata	Formation	Total Depth
3	Soil-Clay	3
9	Sandstone	12
156	Shale	168
25	Lime	193
7	Shale	200
9	Lime	209
6	Shale	215
32	Lime	247
2	Shale	249
24	Lime	273
7	Sandy Shale	280
12	Sand	292
59	Shale	351
22	Lime	373
4	Shale	377
2	Lime	379
5	Sandy Shale	384
3	Shale	387
4	Red Bed	391
2	Shale	393
7	Lime	400
27	Shale	427
9	Lime	436
21	Shale	457
24	Lime	481
10	Shale	491
22	Lime	513
4	Shale	517
4	Lime	521
3	Shale	524
6	Lime	530
11	Shale	541
5	Sand	546
153	Shale	699
7	Lime	706
19	Shale	725
11	Lime	736
8	Shale	744
3	Lime	747
5	Shale	752

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 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 - $RPM \times d$ 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. 14

Farm Crosshows

KS Franklin
 (State) (County)

13 15 20
 (Section) (Township) (Range)

For Lawrence Co.
 (Well Owner)

Town Oilfield Services, Inc.

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

Thickness of Strata	Formation	Total Depth	Remarks
3	sandstone	3	
9	sandstone	12	
156	shale	168	
25	lime	193	
7	shale	200	
9	lime	209	
6	shale	215	
32	lime	247	
2	shale	249	
24	lime	273	
7	gray shale	280	
12	sand	292	gray, no oil
59	shale	351	
22	lime	373	
4	shale	377	
2	lime	379	
5	sandstone	384	
3	shale	387	
4	red bed	391	
2	shale	393	
7	lime	400	
27	shale	427	
9	lime	436	
21	shale	457	
24	lime	481	
10	shale	491	
22	lime	513	

Thickness of Strata	Formation	Total Depth	Remarks
		513	
4	shale	517	
4	lime	521	
3	shale	524	
6	lime	530	
11	shale	541	
5	sand	546	
153	shale	699	see /, no c-1
5	lime	706	
19	shale	725	
11	lime	736	736
8	shale	744	
3	lime	747	
5	shale	752	
3	lime	755	
4	sandy shale	759	
8	lime	767	water
18	shale	785	
2	lime	787	
	sandy shale	792	
20	sand	812	very little oil show
2	sand	814	30% very little bleed
4	sandy shale	818	35%
2	sand	820	30%
2	sandy shale	822	20%
12	sandy shale	834	very little oil
25	shale	859	to