



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1185817
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: _____

1185817

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 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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 <i>(Explain)</i> _____
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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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Form	ACO1 - Well Completion
Operator	Staab Oil Co., a General Partnership
Well Name	Vonfeldt Staab 4
Doc ID	1185817

Tops

Name	Top	Datum
Anhydrite	1549	+652
Topeka	3240	-1039
Heebner	3469	-1268
Toronto Lansing	3492	-1291
Top LKC	3512	-1311
BKC	3754	-1553
Marmathon	3792	-1591
Arbuckle	3832	-1631
TD	3919	-1718

LITHOLOGIC LOG

ROBERT HOPKINS-consulting geologist

Operator STAAB OIL
 Lease/Well VONFELDT/STAB #4
 GL 2196 → KB 2201 (datum)

Location NE SE NE Sec. 19-125-19W
 County ELLIS State KS
 depth this sheet - from 1530 to 3250' OA.

scale 1" = 20'
 page 1 of 5

DRILLING TIME (min/ft)							DEPTH	tops shows	lith graph	DESCRIPTION (lithology, DSTs, mud properties)
0.5	1	2	3	4	5	6				
							30			222' - 8 5/8" surface
										Anhydrite 1549(+652)
										Base 1597(+604)
							50			TOP ANH.
										ANHYDRITE
							1600			BASE ANH.
										MUD UP 2995' (MUDCO)
										MUD VIS 72, wt 8.8 (3050')
							3160			bf fuxlw lst., tite, n.s.
										gry sh.
										gry fuxlw lst., tite, n.s., sl. fossiliferous
										gry sh.
										↓
							3200			gry sh. to sdy sh.
										bf lst., n.s.
										MUD VIS 50; wt 8.8
										Topoka 3240 (-1039)
										dk gry sh.
							TP			bf fuxlw foss. lst., tite, n.s.
							50			

LITHOLOGIC LOG

ROBERT HOPKINS-consulting geologist

Operator STAB OIL
 Lease / Well VONFELDT/STAB #4
 GL KB 2201' (datum)

Location NE SE NE Sec. 19-12S-19W
 County ELLIS State KS
 depth this sheet - from 3250 to 3430

scale 1" = 20'
 page 2 of 5

DRILLING TIME (min/ft)						DEPTH	tops shows	lith graph	DESCRIPTION (lithology, DSTs, mud properties)
0.5	1	2	3	4	5				
						50			bf fuxlw tite lst., n.s.
									afa, very chalking, gd ϕ , n.s.
									dk gry sh.
									bf - gry lst., fuxlw, tite, n.s.
						3300			bf - gry fuxlw tite lst., very fossiliferous, n.s.
									MUD VIS 50; wt 8.8
									lt.-dk brn fuxlw granular lst., sl. ϕ , n.s.
									afa, sl. fossiliferous
									blk carb. sh.
						50			bf fuxlw tite lst., n.s., sl. fossiliferous
									gry fuxlw granular lst., tite, n.s.
									bf fu - mxtlw tite lst., w/ltc gry chert, n.s.
						3400			
									blk carb. sh.
									MUD VIS 49; wt. 9.0
									wh - bf fuxlw lst., tite, n.s.
						30			

LITHOLOGIC LOG

ROBERT HOPKINS-consulting geologist

Operator STAA B OIL
 Lease / Well VONFELDT/STAA B 4
 GL KB 2201' (datum)

Location NE SE NE Sec. 19-125-19W
 County ELLIS State KS scale 1" = 20'
 depth this sheet - from 3430 to 3610' page 3 of 5

DRILLING TIME (min/ft)						DEPTH	tops shows	lith graph	DESCRIPTION (lithology, DSTs, mud properties)
0.5	1	2	3	4	5				
						30			wh-bf fuxlw lst., foss., cherty, lite, n.s.
						50			afa sl. oolitic MUD vis 52; wt 9.0
						H6			bf fm-med xw lite lst., sl. foss., n.s. Heebner Sh. 3471(-1270)
									blk carb. sh.
									wh fuxlw lst., sl. φ, n.s.
									grn-gry sh. to sdy. sh. Toronto 3494(-1293)
						Top			wh fuxlw cherty lst., lite, n.s.
						3500			dk gry sh. LKC 3515(-1314)
						LKC			
						A			wh fuxlw lite lst., n.s.
									tan-dk brn foss. lst., sl. φ, n.s. MUD vis 56; wt 9.1
						B			dk gry sh.
									bf fuxlw lst., lite, n.s.
						50	v. sl. show		gry sh.
						C			wh lst., sl. φ, v. sl. str, NO odor, NO free oil, NO fluorescence
									blk-gry sh
						D	sl. show		bf fuxlw lst., sl. pinpoint φ, sl. str, v. sl. odor, NO free oil, v. weak fluores.
									lite lst., n.s.
						E			dk gry sh.
						F			bf fuxlw lst., n.s.
									gry sh.
						3600			bf fuxlw oolitic lst., sl. φ, n.s.
									afa, no φ
						10			

LITHOLOGIC LOG

ROBERT HOPKINS-consulting geologist

Operator STAAB OIL
 Lease / Well VONFELDT/STAAB 4
 GL KB 2201 (datum)

Location NE SE NE Sec. 19-12S-19W
 County ELLIS State KS scale 1" = 20'
 depth this sheet - from 3610 to 3790 page 4 of 5

DRILLING TIME (min/ft)							DEPTH	tops shows	lith graph	DESCRIPTION (lithology, DSTs, mud properties)
0.5	1	2	3	4	5	6				
							10			wh fuxls granular lst., fair ϕ , n.s.
							10			⊙ CFS
										G
										bf fm-medxln tite lst., n.s. gry sh. sl. fossiliferous
										bf fuxln lst., sl. cherty, tite, n.s. blk carb. sh. to gry sh.
							50			MUD VIS 47; wt. 9.5
										bf fuxln lst., tite, n.s.
										H
										gry sh.
										bf fm-medxln tite lst., sl. oolitic, n.s.
										I
							3700			gry sh.
										bf fuxln tite lst., sl. fossiliferous, n.s. - dk gry sh.
										MUD VIS 58; wt. 9.5
										K
										bf fuxln lst., sl. ϕ @ top; no show except v. sl. odor ftrc stn (1 piece)
										bf fuxln tite lst., n.s.; sl. fossiliferous
										L
							50			bf fuxln tite lst., w/some chert, n.s. blk sh.
										MUD VIS 54; wt. 9.5
										gry sh.
										wh lst., tite, n.s. (Marmaton) red-gry sh., clayey, soft
										pyritic
										BKC 3749(-1548)
										LC ?
										- tite lst., n.s. red sh., soft
							90			

LOST
CIRC @
3772
MIX MUD

LITHOLOGIC LOG

ROBERT HOPKINS-consulting geologist

Operator STAAB OIL
 Lease / Well VONFELDT/STAAB 4
 GL KB 2201' (datum)

Location NE SE NE Sec. 19-12S-19W
 County ELLIS State KS scale 1" = 20'
 depth this sheet - from 3790 to page 5 of 5

DRILLING TIME (min/ft)							DEPTH	tops shows	lith graph	DESCRIPTION (lithology, DSTs, mud properties)
0.5	1	2	3	4	5	6				
							90			red sh., soft
							PN			cherty lst, orange, fite, n.s.
							3800			<u>Pawnee Ls. 3794-3812'</u>
							-9	fair wood shows		wh-clear-orange chert
										MUD VIS 30. wt 8.7
										fresh-weathered, w/blk siltstone, fair str. (live + dead) No free oil, poor fluorescence; no odor
										red to gry sh. (very fine φ, mostly pinpoint, minor vugs)
										red-gry-grn shale
										grn sh. (Simpson)
							50			<u>Arbuckle 3856(-1655)</u>
							Arb			a/a, w/trc fite sst, n.s.
							⊙CFS			wh frshls granular dolomite, sl. φ n.s., w/wh chert
										a/a w/ trc sucrosic dolomite, cherty, sl. φ; n.s.
										a/a, w/more chert, pyrite
										MUD VIS 72; wt 9.2
							3900			bf sl. sucrosic dolomite, sl-fr φ, n.s., minor chert
										a/a w/ more chert
										↓
							TD			
							3920'			run Pioneer O-H log @ TD; PEA 12/11/2013
										Note: Arbuckle top @ drilling break 3837'

5' samples ↓

rough →

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7025

Date	12-3-13	Sec.	19	Twp.	12	Range	19	County	Ellis	State	KS	On Location		Finish	1:15 AM
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Location Yocemen to + Buckeye Rd W 2W 1/2 S Wirt.

Lease Vanfeldt Staab Well No. # 4 Owner

Contractor Skelds To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job Surface Charge To Staab Oil

Hole Size 12 7/8 T.D. 232' Street

Csg. 8 5/8 Depth 232' City State

Tbg. Size Depth The above was done to satisfaction and supervision of owner agent or contractor.

Tool Depth Cement Left in Csg. 25' Shoe Joint Cement Amount Ordered 150 com 3 3/8 cc 2 1/8 Gel

Meas Line Displace 13661

EQUIPMENT

Pumptrk <u>15</u> No.	Cementer Helper <u>Nick</u>	Common <u>150</u>
Bulktrk <u>14</u> No.	Driver <u>Clayton</u>	Poz. Mix
Bulktrk <u>Pu</u> No.	Driver <u>Brett</u>	Gel. <u>3</u>
		Calcium <u>3</u>

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling <u>158</u>
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
<u>Cement</u>	Baskets <u>8 5/8 Swagel</u>
	AFU Inserts
<u>Circulated!!</u>	Float Shoe
	Latch Down

Pumptrk Charge Surface
Mileage 13

Tax	
Discount	
Total Charge	

X Signature George Begler

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7493

Date	Sec.	Twp.	Range	County	State	On Location	Finish
12-11-13				Ellis	KS		12:30 p.m.
Vonnelt/STAB				Location		Yucca Mountain Breakers 2nd 1/23 Winto	
Lease			Well No. 4	Owner			
Contractor Shields			To Quality Oilwell Cementing, Inc.				
Type Job Rotary Plug			You are hereby requested to rent cementing equipment and furnish cements and helper to assist owner or contractor to do work as listed.				
Hole Size 7 7/8		T.D. 3920		Charge To Steaks Oil			
Csg.		Depth		Street			
Tbg. Size		Depth		City		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered 270 ⁶⁰⁰ / NO 4 1/2 BRL 1/4 HFLD			
Meas Line		Displace		Common 162			
EQUIPMENT							
Pumptrk 18	No.	Cement	18	Poz. Mix 108			
		Helper	18	Gel. 10			
Bulktrk	No.	Driver	18	Calcium			
Bulktrk 19	No.	Driver	19	Hulls			
				Salt			
JOB SERVICES & REMARKS							
Remarks:				Flowseal 67#			
Rat Hole 30SK				Kol-Seal			
Mouse Hole 15SK				Mud CLR 48			
Centralizers				CFL-117 or CD110 CAF 38			
Baskets				Sand			
D/V or Port Collar				Handling 280			
1st 3826 50SK				Mileage			
2nd 1575 25SK				FLOAT EQUIPMENT			
3rd 875 100SK				Guide Shoe			
4th 275 40SK				Centralizer			
5th 40' 10SK				Baskets 8 5/8 wooden Plug			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge Plug			
				Mileage 13			
				Tax			
				Discount			
				Total Charge			
Signature George Bagley							