

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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 Recompletion Date _____ 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 Cores Taken <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
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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				

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)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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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:	
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Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	Steinle 1
Doc ID	1302317

All Electric Logs Run

Dual Induction
Compensated
Borehole
Microlog

Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	Steinle 1
Doc ID	1302317

Tops

Name	Top	Datum
Grand Haven	2150	-479
Dover	2173	-502
2nd Tarkio Sand	2181	-510
Tarkio Lime	2221	-550
Elmont	2283	-612
Howard	2423	N/A
Topeka	2495	-824
Heebner	2731	-1060
Toronto	2749	-1078
Douglas	2764	-1078
Lansing	2809	-1138
Base KC	3083	-1412
Conglormate	3100	-1429
Erosional Arbuckle	N/A	N/A
Arbuckle	3134	-1463
RTD	3201	-1530

MORNING DRILLING REPORT

SOUTHWIND DRILLING, INC.

For: **H&D Exploration, LLC**

RIG No. 3

Well Name: Steinle #1
 Location: 2310' FNL & 1220' FEL
 Section: 30-14S-12W
 County: Russell
 API: 15-167-24043-00-00

GL Elevation: 1663'
 KB: 1671'
 Est. TD: 3400'
 Conductor Pipe: N/A

Rig No. 3 (Pusher Jay Krier) 620 617-4477
 Rig No. 3 (Doghouse) 620 566-7104
 Southwind Drilling Office 620 564-3800



Surface Casing: Ran 15 joints of new 23#, 8 5/8" casing, Tally @ 592.68', Set @ 602', used 300 sacks of 60/40 Poz, 3% cc, 2% gel, cement circulated, by Quality (Ticket #1325), plug down @ 1:30 am on 03.03.16.

Production Info: Ran 75 joints of new 15.5#, 5 1/2" casing, Tally @ 3188.51', Set @ 3196', used 180 sacks of Common, 10% salt, 5% Gilonite, 500 gal. mud clear - 48, cemented, by Quality (Ticket #1328), job complete @ 9:30 pm on 03.08.16.

Rotary Total Depth: 3202'

Log Total Depth: 3201'

Geologist: Jim Musgrove

7:00 A.M. Depth: 3202'

7:00 A.M. Current Operation: TEAR DOWN

Spud Date & Time:	03/02/16	03/03/16	03/04/16	03/05/16	03/06/16	03/07/16	03/08/16	03/09/16	Total
03/02/2016 @ 1:30 PM	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	
Total Depth (7:00am)	0	602	1980	2700	2870	3060	3170	3202	
Daily Progress	602	1378	720	170	190	110	32	0	3202
Ft. Per Hr.	86.00	83.52	45.00	32.38	23.03	22.00	42.67	0.00	54.50
Current Operation (7:00am)	Rig Up	WOC	Drilling	CTCH	TOWT	CFS	Drilling	Tear Down	
Formation	Surface	Surface	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale	Arbuckle	
Fuel Used (39 Gall/Inch)	234.00	351.00	390.00	253.50	214.50	195.00	117.00		1755.00
Survey (degree & depth)	1° @ 602'			1 1/4" @ 2700'					

Mud Cost	\$0.00	\$753.79	\$2,174.16	\$100.43	\$0.00	\$700.00	\$0.00		\$3,728.38
Weight (# / Gal)	10.4		8.5	8.7	9.2	9.1			
Vis (Funnel)	40		54	51	52	54			
Water Loss (cc)			8.0	8.0	8.4	8.8			

Bit #1		Reed RT									
Bit Make / Type	Reed RT										
Bit Size	12 1/4										
Bit Hours	7.00										7.00
Bit #2		Reed R-24		Reed R-24		Reed R-24		Reed R-24		Reed R-24	
Bit Make / Type		Reed R-24	Reed R-24	Reed R-24	Reed R-24	Reed R-24	Reed R-24	Reed R-24	Reed R-24		
Bit Size		7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8		
Bit Hours		16.50	16.00	5.25	8.25	5.00	0.75				51.75
Bit Cumulative Hours	7.00	16.50	16.00	5.25	8.25	5.00	0.75	0.00			58.75
Weight on Bit (WOB)	15,000	30,000	30,000	30,000	30,000	30,000	30,000				
RPM	120	80	80	80	80	80	80				
Pump Pressure	300	825	950	700	750	800	800				
Drilling (Rotating) Hours	7.00	16.50	16.00	5.25	8.25	5.00	0.75	0.00			58.75

Daywork Hrs. (Operator's time)											
Rat Hole (> 75 Hrs)											0.00
Wait on Cement											0.00
Weather											0.00
Short Trip			1.50								1.50
Trip				8.25	5.50	9.25	2.25				25.25
Circulate			3.25	2.75	4.25	3.75	2.25				16.25
Tool				1.75	0.75	1.50					4.00
Testing				5.50	2.75	4.50					12.75
Clean Floor after DST					0.25						0.25
Logging							3.00				3.00
Nipple Down / Jet Cellar							1.00				1.00
LDDP / LDDC							2.75				2.75
Run Casing / Circ / Cement	2.50						2.50				5.00
Set Slips							0.50				0.50
Lost Circulation (> 2 hrs)											0.00
Billable Hours	2.50	0.00		18.25	13.50	19.00	14.25	0.00			72.25

Non-Billable Hours (Southwind's time)											
Rig Up / Tear Down	5.00						1.00				6.00
Wait on Cement (NB)	5.50	2.50									8.00
Drill Rat Hole (<.75 hrs)	0.75										0.75
Drill Plug											0.00
Circulate / Trip (Surface)	0.75										0.75
Rig Repair	0.75	0.25	0.75		2.00						3.75
Connections	1.75	3.75	1.75	0.50	0.25						8.00
Jet/Displace		1.00	0.75								1.75
Surveys											0.00
Rig Check											0.00
Lost Circulation (< 2 hrs)											0.00
Lay Down Kelly / MH & RH											0.00
Non-Billable Hrs.	14.50	7.50	3.25	0.50	2.25	0.00	1.00	0.00			29.00

Footage Cost	\$ 6,020.00	\$ 13,780.00	\$ 7,200.00	\$ 1,700.00	\$ 1,900.00	\$ 1,100.00	\$ 240.00	\$ -	\$ 31,940.00
Daywork Cost	\$ 625.00	\$ -	\$ 1,187.50	\$ 4,562.50	\$ 3,375.00	\$ 4,750.00	\$ 3,562.50	\$ -	\$ 18,062.50
Combined Est. Cost*	\$ 6,645.00	\$ 13,780.00	\$ 8,387.50	\$ 6,262.50	\$ 5,275.00	\$ 5,850.00	\$ 3,802.50	\$ -	\$ 50,002.50

*Please note that this is estimated footage & daywork cost only. Additional charges will apply on invoice (fuel surcharge, water transfer pump, etc)

DST #1 Info - Footage Interval: 2650' - 2700' Recovery: 240' Gas in Pipe 120' Oil Cut Mud	DST #2 Info - Footage Interval: 2814' - 2870' LKC "A-C" Recovery: 70' Oil Cut Muddy Water
DST #3 Info - Footage Interval: 2880' - 2935' LKC "F-G" Recovery: 539' Gas in Pipe 286' Gassy Heavy Oil Cut Muddy Water	DST #4 Info - Footage Interval: 2970' - 3060' LKC "H-J" Recovery: 53' Gas in Pipe 1" Clean Oil 96' Oil Cut Mud
DST #5 Info - Footage Interval: 3080' - 3142' "Arbuckle" Recovery: 143' Clean Oil 212' Heavy Oil Cut Mud	DST #6 Info - Footage Interval: Recovery:

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

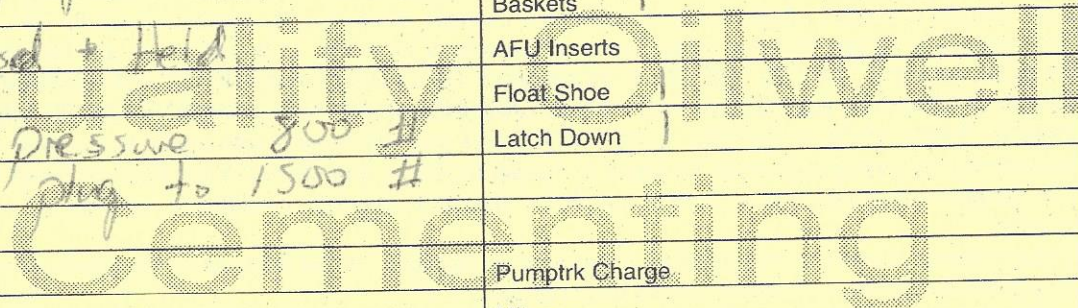
1928

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

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

No.

Date	3-8-16	Sec.	30	Twp.	14	Range	12	County	Russell	State	Ks	On Location		Finish	9:30 PM
Lease								Well No.		Owner					
Steink								1		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.					
Contractor								3		Charge To					
Southwind										H & D Exploration					
Type Job								T.D.		Street					
Longstring								3202'		City					
Hole Size								Depth		State					
7 7/8"								3196'		The above was done to satisfaction and supervision of owner agent or contractor.					
Csg. 5 1/2" New 15,500#								Shoe Joint		Cement Amount Ordered					
Tbg. Size								13,90'		180 Com 10% Salt 5% Gilm.					
Tool								75 3/4 BLS		500 gal Mud Clear 48					
Cement Left in Csg.								Displace		Common					
13,90'								75 3/4 BLS		Poz. Mix					
Meas Line								EQUIPMENT		Gel.					
										Calcium					
										Hulls					
										Salt					
										Flowseal					
										Kol-Seal					
										Mud CLR 48					
										CFL-117 or CD110 CAF 38					
										Sand					
										Handling					
										Mileage					
										FLOAT EQUIPMENT					
										Guide Shoe					
										Centralizer 6					
										Baskets 1					
										AFU Inserts					
										Float Shoe					
										Latch Down 1					
										Pumptrk Charge					
										Mileage					
										Tax					
										Discount					
										Total Charge					
X Signature								Jay Smith							



Remarks:
Rat Hole
Mouse Hole
Centralizers 3, 5, 7, 9, 12, 14
Baskets 8
D/V or Port Collar pipe on bottom break
Circulation pump 500 gal mud
Clear 48 plug bathole w/ 30#
Cement 500 gal casing w/ 150#
Shut down wash for release plug
Displaced plug w/ 75 3/4 BLS
of H₂O.
Released + Held
Lift Pressure 800 #
Load plug to 1500 #

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. 1325

Date	3-3-16	Sec.	30	Twp.	14	Range	12	County	Russell	State	Ks	On Location		Finish	10:30 AM
								Location							
								Bunker hill, Ks - 35 1E 1/2 S w/Intro							

Lease	Steinkle		Well No.	1	Owner										
Contractor	Southwind		3	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														
Hole Size	12 1/4"		T.D.	602'	Charge To	H+D Exploration									
Csg.	8 5/8"		Depth	602	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.	15'		Shoe Joint	15'	Cement Amount Ordered	300 60/40 3% CC 2% bel									
Meas Line			Displace	37 1/4 BBS											

EQUIPMENT

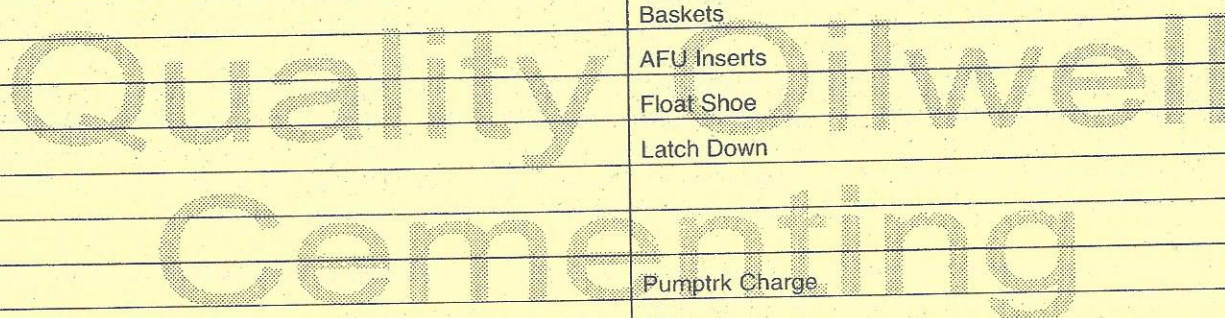
Pumptrk	5	No.	Cementer	Brett	Common
			Helper		Poz. Mix
Bulktrk	4	No.	Driver	Doug	Gel.
			Driver		
Bulktrk	p.u.	No.	Driver	Rick	Calcium
			Driver		

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate				
Rat Hole	Flowseal				
Mouse Hole	Kol-Seal				
Centralizers	Mud CLR 48				
Baskets	CFL-117 or CD110 CAF 38				
D/V or Port Collar	Sand				
	Handling				
	Mileage				

FLOAT EQUIPMENT

Guide Shoe	Rubber Plug				
Centralizer					
Baskets					
AFU Inserts					
Float Shoe					
Latch Down					



Pumptrk Charge	
Mileage	
	Tax
	Discount
	Total Charge
X Signature	Guy Driver