



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1204158
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: _____

1204158

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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MORNING DRILLING REPORT

SOUTHWIND DRILLING, INC.

For: H&D Exploration

RIG No. 6

Well Name: **Staudinger #2**
 Location: **1419' FSL & 1859' FEL**
 Section: **25-15S-12W**
 County: **Russell**

Elevation: **GL 1845'**
 KB **1853'**
 Est. TD: **3400'**

Rig No. 6 (Pusher Wes Pfaff) 620-566-7094
 Rig No. 6 (Doghouse) 620-566-7156
 Southwind Drilling Office 620 564-3800



API: 15-167-23964-00-00

Surface Casing: **Ran 12 joints with new 23#, 8 5/8" casing, Tally @ 505', Set @ 515', used 250 sacks of Common, 3% cc, 2% gel, cement circulated, by Quality (Ticket #173), plug down @ 11:30 pm on 05.02.14.**

Production Info: **Ran 79 joints of new 15.5#, 5 1/2" casing, Tally @ 3307', Set @ 3312', Port Collar Set @ 766', used 180 sacks of Common, 10% salt, 5% Gilsonite, cemented, by Quality (Ticket #061), job complete @ 8:45 am on 05.08.14.**

Rotary Total Depth: **3320'**

Log Total Depth: **3319'**

Geologist: **Jim Musgrove**

7:00 A.M. Depth: 3320'

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

Spud Date & Time:	05/02/14	05/03/14	05/04/14	05/05/14	05/06/14	05/07/14	05/08/14	Total
5/2/14 @ 11:00am	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
Total Depth (7:00am)	0	515	1919	2798	3215	3320	3320	
Daily Progress	515	1404	879	417	105	0		3320
Fl. Per Hr.	89.57	78.00	43.41	20.10	17.50	#DIV/0!	#DIV/0!	46.93
Current Operation (7:00am)	Rig Up	WOC	Drilling	Drilling	CFS	Short Trip	Run Casing	
Formation	Surface	Sand / Shale	Sand / Shale	Sand / Shale	Sand / Shale	LKC	Arbuckle	
Fuel Used	113.67	281.01	311.34	344.92	270.82	91.39	45.79	1458.94
Survey (degree & depth)	1" @ 515'				1 1/2" @ 3215'			
Mud Cost	\$0.00	\$771.45	\$3,860.35	\$643.25	\$2,085.25	\$396.45	\$261.10	\$8,017.85
Weight (# / Gal)			9.2	9.0	9.2			
Vis (Funnel)		27	48		43			
Water Loss (cc)				10.4	9.2			
Bit #1								
Bit Make / Type	JZ RT							
Bit Size	12 1/4							
Bit Hours	5.75							5.75
Bit #2								
Bit Make / Type		JZ HA20Q	JZ HA20Q	JZ HA20Q	JZ HA20Q			
Bit Size		7 7/8	7 7/8	7 7/8	7 7/8			
Bit Hours		18.00	20.25	20.75	6.00			65.00
Bit Cumulative Hours	5.75	18.00	20.25	20.75	6.00	0.00	0.00	70.75
Weight on Bit (WOB)	10,000	30,000	35,000	35,000	35,000			
RPM	100	85	85	85	85			
Pump Pressure	750	650	650	700	700			
Drilling (Rotating) Hours	5.75	18.00	20.25	20.75	6.00	0.00	0.00	70.75
Daywork Hrs. (Operator's time)								
Rat Hole (>.75 Hrs)	0.75							0.75
Wait on Cement	7.50	0.50						8.00
Trip	1.00				8.25	5.25		14.50
Circulate	0.50			1.00	5.00	1.00		7.50
Tool					1.00	1.00		2.00
Testing					2.75	2.75		5.50
Clean Floor after DST					0.25			0.25
Wait on Orders						0.50		0.50
Logging						4.00		4.00
Nipple Down / Jet Cellar								0.00
LDDP / LDDC						4.00		4.00
Run Casing / Circ / Cement	1.50					1.50	1.75	4.75
Set Slips							1.00	1.00
Wait on Loggers						2.50		2.50
Lost Circulation (> 2 hrs)								0.00
Billable Hours	11.25	0.50	0.00	1.00	17.25	22.50	2.75	55.25
Non-Billable Hours (Southwind's time)								
Rig Up / Tear Down	2.50						5.25	7.75
Wait on Cement (NB)								0.00
Drill Rat Hole (<.75 hrs)	0.75							0.75
Drill Plug		0.50						0.50
Circulate / Trip (Surface)	0.75							0.75
Rig Repair		0.25		0.25		0.50		1.00
Connections	2.50	3.75	2.25	1.50	0.50			10.50
Jet/Displace	0.25	0.75	1.25	0.25				2.50
Surveys	0.25				0.25			0.50
Rig Check		0.25	0.25	0.25				0.75
Lost Circulation (< 2 hrs)								0.00
Lay Down Kelly / MH & RH						1.00		1.00
Circulate (NB)								0.00
Non-Billable Hrs.	7.00	5.50	3.75	2.25	0.75	1.50	5.25	26.00
Footage Cost	\$ 7,210.00	\$ 19,656.00	\$ 12,306.00	\$ 5,838.00	\$ 1,470.00	\$ -	\$ -	\$ 46,480.00
Daywork Cost	\$ 3,937.50	\$ 175.00	\$ -	\$ 350.00	\$ 6,037.50	\$ 7,875.00	\$ 962.50	\$ 19,337.50
Combined Est. Cost*	\$ 11,147.50	\$ 19,831.00	\$ 12,306.00	\$ 6,188.00	\$ 7,507.50	\$ 7,875.00	\$ 962.50	\$ 65,817.50

*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: 3164' - 3215' Recovery: 2223' Gas in Pipe 170' Oil	DST #2 Info -	Footage Interval: 3264' - 3320' Recovery: 120' Gas in Pipe 420' Gassy Oil
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Anhydrite @ 753' - 776'

Displaced @ 2502'

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. 173

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-2-14	25	15	12	Russell	KS		11:30 PM
Lease <u>Strandinger</u>				Well No. <u>#2</u>		Location <u>281 + Michealis E to Rd 199 1/4 N W into</u>	
Contractor <u>Southwind #6</u>				Owner 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 <u>Surface</u>				Charge To <u>H+D Exploration</u>			
Hole Size <u>12 1/4</u>		T.D. <u>515'</u>		Street			
Csg. <u>8 5/8</u>		Depth <u>515'</u>		City			
Tbg. Size		Depth		State			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg. <u>25'</u>		Shoe Joint <u>25'</u>		Cement Amount Ordered <u>250 com 3% or 2% bel</u>			
Meas Line		Displace <u>31 bbl</u>		Common <u>250</u>			
EQUIPMENT				Poz. Mix			
Pumptrk <u>5</u>	No.	Cementer Helper <u>Matt</u>		Gel. <u>5</u>			
Bulktrk <u>3</u>	No.	Driver <u>Chad</u>		Calcium <u>9</u>			
Bulktrk <u>Pu</u>	No.	Driver <u>Brett</u>		Hulls			
JOB SERVICES & REMARKS				Salt			
Remarks:				Flowseal			
Rat Hole				Kol-Seal			
Mouse Hole				Mud CLR 48			
Centralizers				CFL-117 or CD110 CAF 38			
Baskets				Sand			
D/V or Port Collar				Handling <u>264</u>			
				Mileage <u>8 5/8</u> FLOAT EQUIPMENT			
<u>Cement</u>				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				<u>Rubber Plug - 1</u>			
				Pumptrk Charge <u>Long Surface</u>			
				Mileage <u>18</u>			
X Signature <u>[Signature]</u>				Tax			
				Discount			
				Total Charge			

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. 061

Date	5-8-14	Sec.	25	Twp.	15	Range	12	County	Russell	State	Ks	On Location		Finish	8:45 AM
Lease	Strandinger														
Contractor	Southwind		#6		Well No. #2		Owner 1/4 N, W/4 into								
Type Job	Production														
Hole Size	7 7/8"		T.D.		3320'		Charge To H+D Exploration								
Csg.	New 5 1/2" 15.504		Depth		3312'		Street								
Tbg. Size			Depth				City State								
Tool	Port Collar		Depth		766'		The above was done to satisfaction and supervision of owner agent or contractor.								
Cement Left in Csg.	18.03'		Shoe Joint		18.03'		Cement Amount Ordered 180 Common 10% Salt								
Meas Line			Displace		78 1/4 BLS		5% Gilsomite - 500 gal mud Clear 48								
EQUIPMENT															
Pumptrk	16	No.	Cementer	Billy		Common 180									
Bulktrk	3	No.	Helper	Chad		Poz. Mix									
Bulktrk	p.u.	No.	Driver	Rick		Gel.									
JOB SERVICES & REMARKS															
Remarks:	Hulls														
Rat Hole	Salt 16														
Mouse Hole	Flowseal														
Centralizers	1, 3, 5, 7, 9, 11, 13, 62														
Baskets	2, 60, 61														
D/V or Port Collar	61" Collar 766'														
pipe on bottom, break circulation															
pump 500 gal mud Clear 48															
plug Rathole w/ 30sx Hook to															
5 1/2" casing & mix cement, shut															
down @ Walsh pump & lines. Release															
plug & Displaced with 78 1/4 BLS															
of water. Released @ well.															
- lift pressure 900 #															
Land plug to 1500 #															
FLOAT EQUIPMENT															
Guide Shoe															
Centralizer 8 fusco's															
Baskets 3															
AFU Inserts															
Float Shoe															
Latch Down 1															
1 Port Collar															
1 Packer shoe															
Pumptrk Charge prod string															
Mileage 18															
Tax															
Discount															
Total Charge															
X Signature <i>G. Roberts</i>															