

Confidentiality Requested:

☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1263756

Form ACO-1

November 2016

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: _____

Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West County: _____

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>	☐ Yes	☐ No	☐ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☐ Yes	☐ No	Name	Top	Datum
Cores Taken	☐ Yes	☐ No			
Electric Log Run	☐ Yes	☐ No			
Geologist Report / Mud Logs	☐ Yes	☐ No			
List All E. Logs Run:					

CASING RECORD ☐ New ☐ 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
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water	Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom	

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:		

Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	Nokes 1
Doc ID	1263756

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.250	8.625	23	945	Common	375	60/40 POZ
Production	7.87	4.500	15.5	3600	Common	265	60/40 POZ

MORNING DRILLING REPORT

SOUTHWIND DRILLING, INC.

For: H&D Exploration

RIG No. 1

Well Name: Nokes #1
 Location: 2120' FSL & 1716' FWL
 Section: 20-19S-15W
 County: Barton
 API: 15-009-26119-00-00

Elevation: GL 1940'
 KB 1959'
 Est. TD: 3400'
 Conductor Pipe: N/A

Rig No. 1 (Pusher Larry Beavers) 625-617-3476
 Rig No. 1 (Doghouses) 626-794-2076
 Southwind Drilling Office 620 564-3800



Surface Casing: Ran 22 joints of new 23#, 8 5/8" casing, Tally @ 933', Set @ 945', used 375 sacks of 60/40, 3% cc, 2% gel, cement circulated, by Quality (Ticket #1612), plug down @ 5:45 am on 08.29.15.

Plugging Info: Plugged well with 265 sacks of 60/40 Poz, 4% gel, 1/4# Flo-seal, 1st plug @ 3600' w/ 50 sacks, 2nd plug @ 1000' w/ 75 sacks, 3rd plug @ 465' w/ 85 sacks, 4th plug @ 40' w/ 10 sacks, 30 sacks for Rat hole, 15 sacks for Mouse hole, cemented, by Quality (Ticket #1618), Job complete @ 12:00 am on 09.04.15.

Rotary Total Depth: 3725'

Log Total Depth: 3723'

Geologist: Jim Musgrove

7:00 A.M. Depth: 3725'

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

Spud Date & Time:	08/27/15	08/28/15	08/29/15	08/30/15	08/31/15	09/01/15	09/02/15	09/03/15	09/04/15	Total
08/27/2015 @ 4:30 PM	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	
Total Depth (7:00am)	0	132	946	1910	2770	3355	3545	3695	3725	3725
Daily Progress	132	814	964	860	585	190	150	30		50.68
Fl. Per Hr.	132.00	88.00	85.69	47.12	31.20	25.33	22.22	40.00	#DIV/0!	
Current Operation (7:00am)	Rig Up	Drilling	WOC	Drilling	Drilling	Drilling	Drilling	Drilling	Tear Down	
Formation	Surface	Sand / Clay	Redbed / Shale	Redbed / Shale	Lime / Shale	Lime / Shale	Lime / Shale	Lime / Shale		
Fuel Used (39 Gall/Inch)	78.00	273.00	312.00	507.00	435.60	316.80	316.80	118.80		2358.00
Survey (degree & depth)		1' @ 946'				1 1/4' @ 3470'		1' @ 3725'		
Mud Cost	\$0.00	\$827.80	\$0.00	\$2,979.62	\$2,414.46	\$216.62	\$279.00	\$443.41		\$7,161.11
Weight (# / Gal)		10.7			8.2	8.3	9.5	9.4		
Vis (Funnel)		45			60	50	56	55		
Water Loss (cc)					8.6	9.2	10.4	10.4		
Bit #1										
Bit Make / Type	PDC	PDC								
Bit Size	12 1/4	12 1/4								
Bit Hours	1.00	7.00								6.00
Bit #2										
Bit Make / Type		JZ								
Bit Size		12 1/4								
Bit Hours		2.25								2.25
Bit #3										
Bit Make / Type			Reed R24A	Reed R24A	Reed R24A	Reed R24A	Reed R24A	Reed R24A		
Bit Size			7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8		
Bit Hours			11.25	18.25	18.75	7.50	6.75	0.75		63.25
Bit Cumulative Hours	1.00	9.25	11.25	18.25	18.75	7.50	6.75	0.75	0.00	73.50
Weight on Bit (WOB)		20,000	20,000	32,000	32,000	32,000	32,000	32,000		
RPM		100	80	80	80	80	80	80		
Pump Pressure		300	750	800	900	900	925	925		
Drilling (Rotating) Hours	1.00	9.25	11.25	18.25	18.75	7.50	6.75	0.75	0.00	73.50
Daywork Hrs. (Operator's time)										
Rat Hole (>.75 Hrs)										0.00
Wait on Cement			2.00							2.00
Weather										0.00
Short Trip						1.75				1.75
Trip						5.00	5.25	2.75		13.00
Circulate					1.50	5.50	5.75	2.00		14.75
Tool						1.00	1.00			2.00
Yestling						2.00	2.75			4.75
Clean Floor after DST										0.00
Logging								4.00		4.00
Nipple Down / Jet Cellar										0.00
LDDP / LDDC / Plug well								5.50		5.50
Run Casing / Circ / Cement		2.50								2.50
Set Slips										0.00
Wait On Orders								0.75		0.75
Billable Hours	0.00	2.50	2.00	0.00	1.50	15.25	14.75	15.00	0.00	51.00
Non-Billable Hours (Southwind's time)										
Rig Up / Tear Down	21.00							7.00	2.00	30.00
Wait on Cement (NB)		1.25	6.75							8.00
Drill Rat Hole (<.75 hrs)	0.50									0.50
Drill Plug			0.75							0.75
Circulate / Trip (Surface)		0.75								0.75
Rig Repair	1.25	1.25		0.75	0.25		1.50			5.00
Connections	0.25	2.50	2.25	2.00	1.25	0.75	0.50			9.50
Jet/Displace		2.25	0.75	1.00	1.75		0.25			6.00
Surveys		0.25				0.25		0.25		0.75
Rig Check		0.25	0.25	0.75	0.50	0.25	0.25	0.25		2.50
Trip Time (plugged bit)		1.25								1.25
Bit Trip		2.50								2.50
Trip Time for repairs				1.25						1.25
Lost Circulation (< 2 hrs)										0.00
Lay Down Kelly / MH & RH								0.75		0.75
Non-Billable Hrs.	23.00	12.25	10.75	5.75	3.75	1.25	2.50	8.25	2.00	69.50
Footage Cost	\$ 1,584.00	\$ 9,768.00	\$ 11,668.00	\$ 10,320.00	\$ 7,020.00	\$ 2,260.00	\$ 1,800.00	\$ 360.00	\$ -	\$ 44,700.00
Daywork Cost	\$ -	\$ 750.00	\$ 600.00	\$ -	\$ 450.00	\$ 4,575.00	\$ 4,425.00	\$ 4,500.00	\$ -	\$ 15,300.00
Combined Est. Cost*	\$ 1,584.00	\$ 10,518.00	\$ 12,168.00	\$ 10,320.00	\$ 7,470.00	\$ 6,855.00	\$ 6,225.00	\$ 4,860.00	\$ -	\$ 60,000.00

*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: 3430' - 3470'
 Recovery: 20' Mud

DST #2 Info -

Footage Interval: 3620' - 3658'
 Recovery: 600' Muddy Water

Anhydrite @ 940' - 956'

Displaced @ 2900'

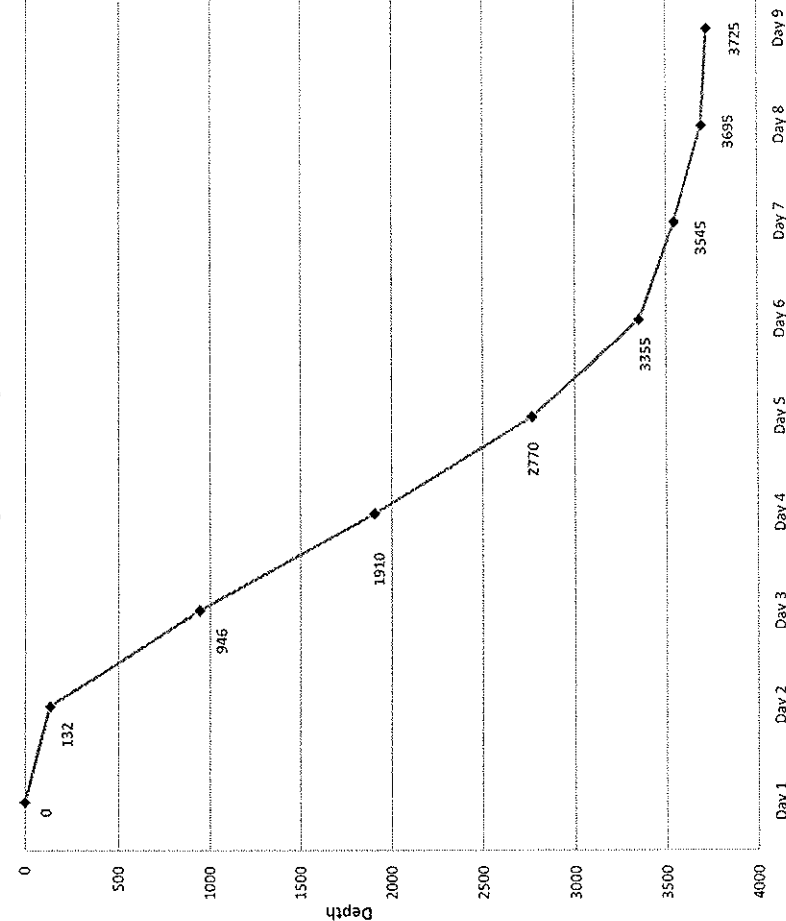


Job Summary Graphical Report

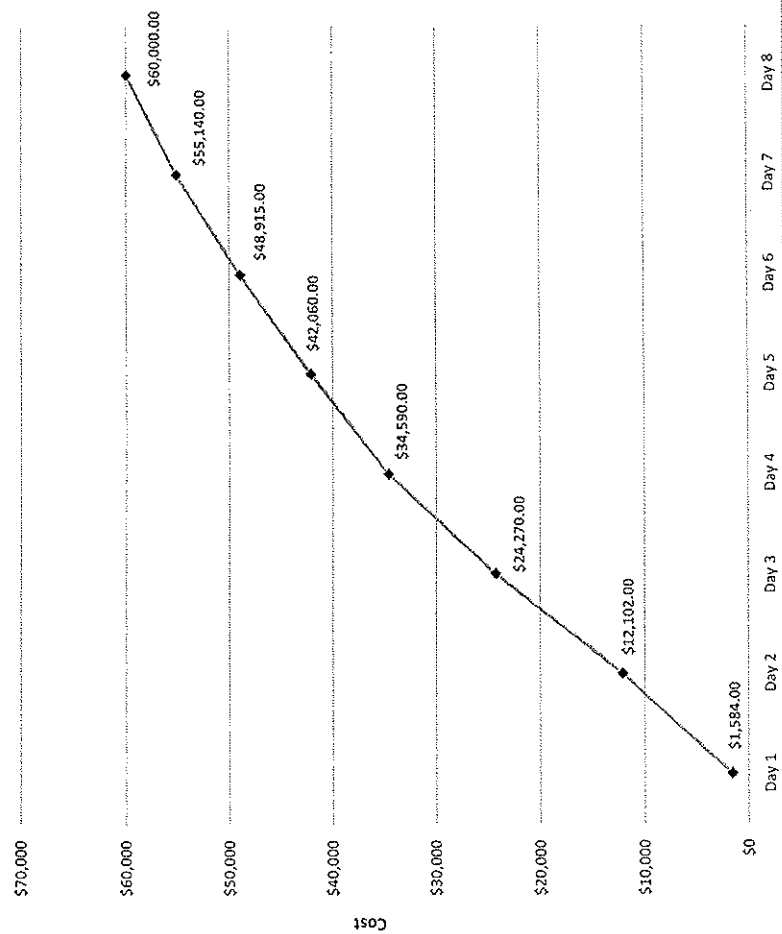
Southwind Rig No. 1

Nokes #1

Days vs Depth



Days vs Cost



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. 1612

Date	8-29-15	Sec.	20	Twp.	19	Range	15	County	Barton	State	Ks	On Location		Finish	5:45 Ar
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Lease Nokes Location Albert Ks - 55 to 10 Rd,

Well No.	1	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.
Contractor	Southwind	Type Job	Surface
Hole Size	12 1/4"	T.D.	946'
Csg.	8 5/8"	Depth	946'
Tbg. Size		Depth	
Tool		Depth	
Cement Left in Csg.	45'	Shoe Joint	45'
Meas Line		Displace	57 1/4 BLS
Charge To	H-D Exploration		
Street			
City	State		
The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Amount Ordered		375 60/40 3 1/2 cc 2 1/2 gal	

EQUIPMENT			
Pumptrk	18	No.	Cementier
			Helper
Bulktrk	4	No.	Driver
			Driver
Bulktrk	p.u.	No.	Driver
			Driver
Common	225		
Poz. Mix	150		
Gel.	5		
Calcium	14		

JOB SERVICES & REMARKS	
Remarks:	Cement did Circulate
Rat Hole	
Mouse Hole	
Centralizers	
Baskets	
D/V or Port Collar	
Handling	394
Mileage	

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Rubber plug	
Baffle plate	
Pumptrk Charge	Long Surface
Mileage	15

Signature <u>K.L. Thompson</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. 1618

Date	9-3-15	Sec.	20	Twp.	19	Range	15	County	Barton	State	KS	On Location		Finish	12:05 AM	
Nokes								Location Albert, KS - 55 to 10 Rd, 1/2 E, N/S								
Lease	Well No. 1							Owner								
Contractor	Southwind							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	Plug							Charge To H-D Exploration								
Hole Size	7 7/8" T.D. 3'125'															
Csg.	4 1/2" D.P. Depth 3600'							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 265 60/40 4 1/2 Gal 1/4# Fl Seal								
Meas Line	Displace H2O/mud															
EQUIPMENT																
Pumptrk	18	No.	Cementer	Billy	Common 159											
Bulktrk	19	No.	Helper		Poz. Mix 106											
Bulktrk	P.U.	No.	Driver	Donny	Gel. 10											
Bulktrk	P.U.	No.	Driver	Rock	Calcium											
JOB SERVICES & REMARKS																
Remarks:	3600' - 50 SX															
Rat Hole	1000' - 75 SX															
Mouse Hole	465' - 85 SX															
Centralizers	40' - 10 SX w/plug															
Baskets	Ratholes - 30 SX															
D/V or Port Collar	Mousehole - 15 SX															
Cement did Circulate																
FLOAT EQUIPMENT																
Guide Shoe																
Centralizer																
Baskets																
AFU Inserts																
Float Shoe																
Latch Down																
1 - Dry hole plug																
Pumptrk Charge plug																
Mileage 15																
Tax																
Discount																
Total Charge																
X Signature [Signature]																



Southwind Drilling, Inc.
Plugging Orders & Reports

API
15-006 26119
AW 44 940
966
AR Butler 3625

Lease: NOKes #1

Plugging Received from KCC Representative:

Name: RAY Humble Date: Sept 2 Time: 4:45
25ft Above R

1st plug @	<u>3600</u> feet,	<u>50</u> sacks	Stands	<u>58</u>
2nd plug @	<u>11000</u> feet,	<u>75</u> sacks	Stands	<u>16 - 1 single</u>
3rd plug @	<u>465</u> feet,	<u>95</u> sacks	Stands	<u>85 + 1</u>
4th plug @	<u>40</u> feet,	<u>10</u> sacks	Stands	<u>50</u>
5th plug @	_____ feet,	_____ sacks	Stands	_____

85% water plug

Mousehole: 25 sacks no

Rathole: 30 sacks

Total Cement Used: 265 sacks

Type of cement: 60/40 P02 4% gel 1/2 Road Per. SKS

Plug Down @ 12 AM, QUALITY CEMENTING, TK-1618
8-4-15

Call KCC When Completed:

Name: JEN, Ken Date: 8-4-15 Time: 1000 AM