

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1190675

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 #	API No. 15 -
Name:	Spot Description:
Address 1:	SecTwpS. R East West
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx) Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
☐ 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:	Producing Formation: Elevation: Ground: Kelly Bushing: Feet Total Vertical Depth: Plug Back Total Depth: 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.
Original Comp. Date: Original Total Depth:	'
□ Deepening □ Re-perf. □ Conv. to ENHR □ Conv. to SWD □ Plug Back □ Conv. to GSW □ Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
□ Commingled Permit #:	Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite:
☐ ENHR Permit #: ☐ GSW Permit #:	Operator Name:
Spud Date or Date Reached TD Completion Date or Recompletion Date	Quarter Sec. TwpS. 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:

Page Two



Operator Name:				Lease N	Name: _			_ Well #:		
Sec Twp	S. R	East	West	County	:					
	ow important tops of fo ing and shut-in pressu o surface test, along wi	res, whe	ther shut-in pre	ssure reacl	hed stati	c level, hydrosta	tic pressures, bo			
Final Radioactivity Logilles must be submitted						gs must be ema	iled to kcc-well-lo	ogs@kcc.ks.go	v. Digital	electronic log
Drill Stem Tests Taken (Attach Additional S		Ye	es No			3	on (Top), Depth a			Sample
Samples Sent to Geol	ogical Survey	Ye	es 🗌 No		Nam	9		Тор	L	Datum
Cores Taken Electric Log Run		☐ Y€								
List All E. Logs Run:										
			CASING	RECORD	│ Ne	w Used				
		Repo				rmediate, producti	on, etc.			
Purpose of String	Size Hole Drilled		e Casing t (In O.D.)	Weig Lbs./		Setting Depth	Type of Cement	# Sacks Used		and Percent additives
Purpose	Depth					EEZE RECORD				
Purpose: Perforate	Top Bottom	Туре	of Cement	# Sacks	Used		Type and	Percent Additives		
Protect Casing Plug Back TD										
Plug Off Zone										
Did you perform a hydrau	ilic fracturing treatment or	this well?	?			Yes	No (If No, sk	aip questions 2 ar	nd 3)	
	otal base fluid of the hydra		•		•			rip question 3)		
Was the hydraulic fractur	ing treatment information	submitted	to the chemical of	disclosure reg	gistry?	Yes	No (If No, fil	out Page Three	of the ACC	D-1)
Shots Per Foot			RD - Bridge Plug Each Interval Perl				cture, Shot, Cemen		d	Depth
TUBING RECORD:	Size:	Set At:		Packer At	t:	Liner Run:				
							Yes No	1		
Date of First, Resumed	Production, SWD or ENH	R.	Producing Meth Flowing	nod:	g 🗌	Gas Lift C	other (Explain)			
Estimated Production Per 24 Hours	Oil Bl	bls.	Gas	Mcf	Wate	er Bl	ols.	Gas-Oil Ratio		Gravity
DIODOGITI	ON OF CAC			ACTUOD OF	COMPLE	TION		DDODUOTI		\/AL.
Vented Sold	ON OF GAS: Used on Lease		N Open Hole	NETHOD OF \Box Perf.	Dually	Comp. Con	nmingled	PRODUCTIO	λιν ΙΙΝ Ι ΕΚ\	VAL
(If vented, Sub			Other (Specify)		(Submit A	ACO-5) (Subi	mit ACO-4)			

Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	Stafford County Farms 1
Doc ID	1190675

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.2500	8.625	23	663	Common	325	60/40 POZ
Completio n	7.87	5.500	15.5	4156	Common	150	60/40 POZ

MORNING DRILLING REPORT

For: H&D Exploration, LLC

SOUTHWIND DRILLING, INC.

RIG No. 6

Well Name: Stafford Co. Farms #1 Location: 1388' FNL & 2559' FEL

Location: 1388' FNL & 2559' Fl Section: 11-25S-12W County: Stafford API: 15-185-23853-00-00 Elevation: GL 1849'
KB 1857'
Est. TD; 4300'
Conductor: N/A

Rig No. 6 (Pusher Wes Pfaff) 620 565-7094 Rig No. 6 (Doghouse) 620 566-7156 Southwind Drilling Office 620 564-3800

Surface Casing: Ran 16 joints with new 23# 8 5/8" casing, Tally @ 653', Set @ 663', used 325 sacks total, 175 sacks of A-Con, 3% cc, 1/4# CF, 150 sacks of Common, 2% cc, 1/4# CF, cement circulated, by Basic (Ticket #9799), plug down @ 1:00 pm on 02.13.14.

Plugging Info: Plugged well with 150 sacks of 60/40 Poz, 4% gel, 1st plug @ 4156' w/ 50 sacks, 2nd plug @ 682' w/ 50 sacks, 3rd plug @ 62' w/ 20 sacks, 30 sacks for Rat hole, cemented, by Basic (Ticket #9875), job completed @ 10:00 pm on 02.21.14.

Flotary Total Depth: 4211

Y			Lo	g Total Depth	: 4220'			HIDHI	Geologist:	Jim Musgro		
7:00 A.M. Depth:	4211'			7.11		7:00 A	A.M. Current	Operation:	TEAR DOWN		70	
Spud Date & Time: 02/12/2014 @ 8:15 PM	02/12/14 Day 1	02/13/14 Day 2	02/14/14 Day 3	02/15/14 Day 4	02/16/14 Day 5	02/17/14 Day 6	02/18/14 Day 7	02/19/14 Day 8	02/20/14	02/21/14	02/22/14	T-1-1
Total Depth (7:00am)	0	630	977	2275	3120	3390			Day 9	Day 10	Day 11	Total
Daily Progress	630	347	1298	845	270	200	3590	3810	4075	4211	4211	
Ft. Per Hr.	84.00	77,11	64.90				220	265	136			4211
Current Operation (7:00am)	Rig Up	Drilling	TOTAL PROPERTY.	40.24	22.98	20.51	16.60	13.77	17.00	0.00	#DtV/0t	36.46
Formation	Surface		Drilling	Drilling	Drilling	TOWT	Drilling	TOWT	Drilling	Drilling	Tear Down	50.40
1000	Surface	Surface	Sand / Shale	Sand / Shale	Shale	Toronto	Lansing	Lansing "L"	Simpson	Arbuckle	Tour DOWN	
Fuel Used	228.94	182,37	398,40	365,09	340.38	210,50	355.40					
Survey (degree & depth)		1/4" @ 663"				2.10.00	333,40	319,79	318.50	221,67		2941.02
Section of the Control of the Contro		1/4 (2) 063			1 1/4" @ 3390"			C.C. The Control of t	1 1/4" @ 3390"			
Mud Info												
Mud Cost	\$0,00	\$564.55	\$2,700.65	\$2,283,25	\$888.25	£1 040 00	F000 40					
Weight (# / Gal)	10.0	0.7	40.4	GE E OU E D	\$000,20	\$1,042.90	\$330.45	\$160.90	\$1,235.95	\$0.00		\$9 206 90

Drining (Rotating) Hours	7.50	4.50	20.00	21.00	11.75	9.75	13.25	19.25	8.00	0.50	0.00	115,50
Drilling (Rotating) Hours				750	750	700	800	850	850	850		
Pump Pressure	750	600	750		80	80	80	75	70	70		
RPM	100	90	80	80		35,000	35,000	35,000	35,000	35,000		
Weight on Bit (WOB)	20,000	20,000	35,000	35,000	35,000					0,50	0.00	115.50
Bit Cumulative Hours	7.50	4.50	20.00	21.00	11.75	9.75	13.25	19.25	8,00			
		4.50	20.00	21.00	11.75	9.75	13.25	19.25	8.00	0.50		108.00
Bit Hours		7 7/8	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 Size	_	Reed	Reed									
Bit Make / Type		N. C.	T -							and the second		7.30
Bit #2	1,00					C						7.50
Bit Hours	7.50					Y						
Bit Size	12 1/4					-						
Bit Make / Type	JZ Tooth ReTip		T	T			1					
Bit#1						0,0	10.0	12.0	9.2			
Water Loss (cc)			100		8.8	8.8	10.0		50	10000		
Vis (Funnel)	37	38	28	52	60	60	62	57	- Vinter-			
10 M	10.0	0.7	10.1	8.9	9.3	9.2	9.4	9.2	9.4			40,200,00

-Characters of Construction	ACCESS OF THE PARTY OF				Daywork Hrs.	(Operator's tin	1e)					
Rat Hole (>.75 Hrs)			1710	110	1 -0		T .				T 8	Hall Ipfealt
Wait on Cement		12.00										0.00
Wait on Water	5.00	18:05										12.00
Trip		1.00			6.25	7.25	1.00					5.00
Circulate		0.50			2.00		4.25	1.75	5.75	3.00		29.25
Tool		0.00			-	2.00	2.75	1.75	6.00	1.50		16.50
Testing					1.00	1,00	0,50	0.50	0.75	1		3.75
Clean Floor					2.00	3.25	2,25		2.75			10.25
Logging												0.00
LDDP / LDDC / Plug well					-					4,50		4.50
Run Casing / Cement		2.50								5.50		5.50
Nipple Down / Jet Cellar												2.50
Set Slips / Jet Pits					1							0.00
Wait on Loggers												0.00
Wait on Orders												0.00
Billable Hours	5.00	16.00	0.00	0,00	11.25	42.50		1000	35000			0.00
			4.45			13,50	9.75	4.00	15.25	14.50	0.00	89.25
Rig Up / Rig Down	8.00			Nor	-Billable Hours	(Southwind's	time)				Wike Son all miles 2005	

Please note that this is esti	mated footage & d	avwork cost only	Additional char	spec will another			· 1,025.00	1 4	0,432,30	1 3	5,110.00	3	7,241.50	\$ 5,075.00	\$.	\$	90,191.50
Combined Est. Cost*	\$ 10,570.00	\$ 10,458.00	\$ 18,172.00	\$ 11,830.00		-			6,492.50			-	5,337.50	\$ 5,075.00	\$ -	\$	31,237.50
Daywork Cost	\$ 1,750,00	\$ 5,600.00	\$ -	\$ -	\$ 3,937.		\$ 4,725.00	+		-	1,400,00	-		\$ -	5 -	1 3	58,954.00
Footage Cost	\$ 8,820,00	\$ 4,858,00	\$ 18,172.00	\$ 11,830.00	\$ 3,780.	00 8	\$ 2,800.00	3	101.000	9	3,710.00		1,904.00	2000		₩.	
		in the same	1,00	3.00	1.00		0.75	-	1.00	_	0.75	_	0.75	9.00	0.00		35.2
Non-Billable Hrs.	11.50	3,50	4.00	3.00	1.00		7.02	+		-		-		0.50			0.5
Lay Down Kelly / RH						-		+		-		-					0.0
Lost Circulation (< 2 hrs)						-		+		-		-				1	0.0
Plugged Bit			1			-		╁		-		-				1	0.0
Trip Time (NB)						-		+		-		-		U		1	0.0
Circulate (NB)						-		╀		-		-					0.0
Rig Check					0,23	_		+		+		-					0.2
Surveys			1000	1,00	0.25	-		+		+-	_	-				L	2.0
Jet/Displace		- 1	1.00	1.00	0,75	-	0.75	+	1.00	-	0.75	-	0.75				13.0
Connections	3.00	1.25	3.00	1.75	0.75	-	0.75	+		-	10.00	-					0.7
Rig Repair	0.25	0.25		0.25		-		+		-		-				_	1.0
Circulate / Trip (Surface)		1,00				-	_	+		+		-					1.0
Drill Plug		1,00				-		+		-	_	-					0.2
Drill Rat Hole (<.75 hrs)	0.25					-		+		-		-				1	0.0
Wait on Cement (if NC)			1			-		+		-	_	+		8,50			16.5
Wait on Cement (if NC)	0.00					-		+		_				8,50	William .	I	

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

DST#1 Info

Footage Interval: 3355' - 3390' "Toronto

Recovery: 15' Mud

DST #2 Info -

Footage Interval: 3550' - 3580' Lansing "B" Recovery: 135' Frothy Gassy Oily Mud

DST #3 Info -

Footage Interval: 3775' - 3810' Lansing "L"
Recovery: 30' Slightly Oil Spotted Mud

DST #4 Info -

Footage Interval: 4055' - 4131' "Simpson Sand" Recovery: 45' Mud



TREATMENT REPORT

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Casing Size	T401/9	SikeD	Shots/i	Pip	-C	= IN E	NT				etrs (4	luni	RATE				_		- 1	1.8
Depth	Depth		From	-11-	То		FRIG.	I FOR	Wind.									75M		oe l	
Volume	Volume		From		То		(AE	N N	15.	01	b.16a	M PM	ax.92	160	41.15	II.,	1.4	3°C	V.E.	7.15	7.
Max Press	Max Pre				То		Ba	r e	-			A				-		15 N	5200000		
Well Gonnect	ion Annulus	Vol	From		То							H	IP Use	d	+				ulus Pr	ASSIJFA	
Plug Depth	Packer [Depth	From		То		Flus	sh [)r:11	! ^-	Muda	G	ve-Volum	te VI	/h to	-		├	Load		
Customer Re	presentative	Wes	5			Statio	n Mana	age	110	113	n Go	114	41	Tre	aler					- > 1	
Service Units		100000	463	70,9	59	19,9	18/	-		T	N OC	1	TIEA	1	Lai	EV	<u>ce</u>	N ₁ /	Nes	sid	Ε
Driver Names/\(\rightarrow\)		MG			Ph	ye	,,			1				T		+		+		+	
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TREATMENT REPORT

Customer	Hap-g	eval.	nad	-20)	П	ease No.	,					Date	-						
Lease S7	HFFOR.	n Co	note:	Zon	-	Nell # /	-					-				8			
Fleid Orde	r# Sta	tion	4	AI				Casing	vsle	Dep	oth	Count	O .	HTOK	3-14	State			
Type Joh	-	85/8	ىگ -			1//				Formation	on		~ /W	Legail	Description				
	PE DATA		DC-0731 Net			DATA	Τ	FLUID	LISE	:D			TDE A		RESUME	2			
Casing Size		Size	Shots/				A	cid			-	RATE	PRE		ISIP				
Deput 5 3	Depth		From		т.		Pi	re Pad			Max				5 Min.				
Volume 1/2	Volume	,	From		To		Pa	ad			Min				10 Min.				
Max Press	Max Pr	ess	From		То		Fr	ac			Avg				15 Min.				
Well Cannec	tion Annulu	s Vol.	From		То						HHP Use	3			Annulus Pre	essure			
Plug Depth	Packer		From		To		Flu	ush		-	Gas Volur	ne			Total Load				
Customer Re	epresentativ		- 1			Station	Mar	nager	11.	- (cutt	Trea	ter /	21	4/11	_			
Service Units	37900	20	9208	227	31 3 -	2080	7 0	1998	yer.		CUT/	1-	14	ober 7	Jul11-	┤—			
Driver Names	Sullin	0	TRAV			LUBY		Phys				†				+			
Time	Casing Pressure		ubing essure	Bbls	. Pum	ped		Rate					Service						
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