

Kansas Corporation Commission Oil & Gas Conservation Division

1272669

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 #	API No.:						
Name:	Spot Description:						
Address 1:	SecTwpS. R						
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)						
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84						
Purchaser:	County:						
Designate Type of Completion:	Lease Name: Well #:						
New Well Re-Entry Workover	Field Name:						
☐ Oil ☐ WSW ☐ SWD	Producing Formation:						
Gas DH EOR	Elevation: Ground: Kelly Bushing:						
☐ OG ☐ GSW	Total Vertical Depth: Plug Back Total Depth:						
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet						
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No						
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet						
Operator:	If Alternate II completion, cement circulated from:						
Well Name:	feet depth to:w/sx cmt.						
Original Comp. Date: Original Total Depth:							
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan						
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)						
Down's I	Chloride content: ppm Fluid volume: bbls						
☐ Commingled Permit #:	Dewatering method used:						
SWD Permit #:	Location of fluid disposal if hauled offsite:						
EOR Permit #:	Location of fluid disposal if fladied offsite.						
GSW Permit #:	Operator Name:						
. 5000000	Lease Name: License #:						
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R						
Recompletion Date Recompletion Date	Countv: 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:									

Page Two



Operator Name:					Lease Na	ıme: _			Well #:		
SecTwp	oS. F	R	East	West	County: _						
	flowing and sh	ut-in pressure	s, whe	ther shut-in pre	essure reache	ed stati	c level, hydrosta	tic pressures, t		val tested, time tool erature, fluid recovery,	
Final Radioactivit files must be sub							gs must be ema	iled to kcc-wel	l-logs@kcc.ks.gov	v. Digital electronic log	
Drill Stem Tests T	es No		Log Formation (Top), Depth and Datum			Sample					
Samples Sent to	Geological Sur	vey	Ye	es No		Nam	е		Тор	Datum	
Cores Taken Electric Log Run Geolgist Report / List All E. Logs R	_		 Y€ Y€	es No							
			Repo		RECORD conductor, surfa	Ne	w Used	on, etc.			
Purpose of Str	ing Siz	e Hole		e Casing	Weight		Setting	Type of	# Sacks	Type and Percent	
Fulpose of Sti	"' ^g D	rilled	Set	(In O.D.)	Lbs. / F	t.	Depth	Cement	Used	Additives	
				ADDITIONAL	CEMENTING	i / SQL	JEEZE RECORD				
Purpose:		Depth Bottom	Type	of Cement	# Sacks U	# Sacks Used Type and Percent Additives					
Perforate Protect Cas	sing										
Plug Back Plug Off Zo											
1 lug Oli 20	JIIC .										
Did you perform	a hydraulic fractu	ring treatment o	n this w	ell?			Yes	No (If No,	skip questions 2 ar	nd 3)	
2. Does the volume	e of the total base	fluid of the hydr	aulic fra	cturing treatmen	t exceed 350,00	00 gallo	ns? Yes	No (If No,	skip question 3)	·	
3. Was the hydrauli	ic fracturing treatr	nent information	submit	ted to the chemic	cal disclosure re	egistry?	Yes	No (If No,	fill out Page Three	of the ACO-1)	
Date of first Produc	ction/Injection or F	Resumed Produc	ction/	Producing Met	hod:						
Injection:				Flowing	Pumping		Gas Lift C	other (Explain)			
Estimated Produc Per 24 Hours	tion	Oil Bbls	S.	Gas	Mcf	Wat	er Bl	ols.	Gas-Oil Ratio	Gravity	
DISPO	OSITION OF GAS	:		N	METHOD OF C	OMPLE	TION:			N INTERVAL:	
Vented	Sold Use	d on Lease		Open Hole	Perf.			nmingled	Тор	Bottom	
(If vente	d, Submit ACO-18.)				(Submit	ACO-5) (Subi	mit ACO-4)			
Shots Per	Perforation	Perforation	1	Bridge Plug	Bridge Plug		Acid,	Fracture, Shot, (Cementing Squeeze	Record	
Foot	Тор	Bottom		Туре	Set At			(Amount and k	Kind of Material Used)		
TUBING RECORE): Size:		Set At:	<u> </u>	Packer At:						

Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	Shorty 1
Doc ID	1272669

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.250	8.625	23	310	Common		60/40 3%cc 2%gel
Production	7.875	5.50	15.5	3297	Common	425	QMDC

MORNING DRILLING REPORT

For: H&D Exploration

SOUTHWIND DRILLING, INC.

RIG No. 3

Well Name: Shorty #1

Location: 1096' FNL & 2286' FWL

Section: 20-14S-12W

KB 1732' Es1. TD: 3400' County: Russell

Conductor Pipe; N/A

Elevation: GL 1724

Rig No. 3 (Pusher Jay Krier) 620 617-4477

Rig No. 3 (Doghouse) 620 566-7104

Southwind Drilling Office 620 564-3800

API: 15-167-24041-00-00

Surface Casing: Ran 7 Joints of new 20#, 8 5/8" casing, Tally @ 300.53', Sot @ 310', used 170 sacks of 60/40 Poz, 3% cc, 2% got, cament circulated, by Quality (Ticket #1448), plug down @ pm on 11.09.15.

Production Casing: Ran 99 joints of used 14.0#, 5 1/2" casing, Tally @ 3288.90", Sot @ 3297", used 425 sacks of QMDC, 1/4# Flo-seal, cemented by Quality (Ticket #1291), job complete @ 9:36 am on 11.16.15.

Rotary Total Depth: 3300'

Geologist: Jim Musgrove Log Total Depth: 3298'

7:00 A,M. Depth:	3300'		g (Old. Dopin.		7:00	A.M. Current	Operation:	TEAR DOWN	1	
		*****	444445	11/12/15	11/13/15	11/14/15	11/15/15	11/16/15	11/17/15	
Spud Date & Time:	11/09/15	11/10/15	11/11/15 Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Total
11/09/2015 @ 3:00 PM	Day 1	Day 2			2920	3090	3218	3300	3300	
Total Deoth (7:00am)	0	310	1840 500	2340 580	170	128	82	0	0	3300
Daily Progress	310	1530 88,70	46.51	36.83	24.29	21.33	25.23	0.00	0.00	51.36
Ft. Per Hr.	72.94	WOC	Drilling	Drilling	DSY #2	Drilling	DST#5	Run casing	Tear Down	
Current Operation (7:00am)	Rig Up Surface	Surface	Shale / Lime	Shale / Lime	Lime / Shale	LKC	LKC	Arbuckle		
Formation							234.00	0.00		2067.00
Fuel Used (39 Gal/Inch)	195.00	351.00	351.00	351.00	273.00	312.00	234.00	0.00		
Survey (degree & depth)	1/4' @ 310'		3/4" @ 2260"							
										\$5,619.41
Mud Cost	\$0.00	\$1,566.37	\$3,013.87	\$721.11	\$0.00	\$0.00	\$318.06	\$0.00		\$5,019.41
Weight (# / Gal)									∦	
Vis (Funnel)									———	
Water Loss (cc)										
Bit #1										
Sit Make / Type	Reed									
Bit Size	12 1/4									4.25
Bit Hours	4.25									4.4.
Bit #2										
Bit Make / Type		Roed R24	Rood R24	Reed R24	Reed R24	Reed R24	Reed R24	ļ		
Bit Size		7 7/8	7 7/8	7 7/8	7 7/8	7 7/8	7 7/8			60.00
Bit Hours		17.25	10.75	15.75	7.00	6.00	3,25			
Bit Cumulative Hours	4.25	17.25	10.75	15.75	7.00	6.00	3.25	0.00	0.00	64.25
		30,000	30,000	30,000	30,000	30,000	30,000			
Weight on Bit (WOS)	15,000		80	80	80	80	80			
RPM	120 450	80 800	750	850	900	950	950			
Pump Pressure	450							0.00	0.00	64,2
Orifling (Rotating) Hours	4.25	17.25	10.75	15.75	7.00	6.00	3.25	0.00	0.00	L
	·			Daywork Hr	s. (Operator's ti	me)				r
Rat Hole (>.75 Hrs)	0.50									0.50
Wait on Cement	0.55	2.00								2.00
Weather		1.00								0.00
Short Trip			1.00	1.00						2.00
Trip			3.75	2.25	6.50	7.00	4.50			24.0
Circulate			3.00	2.25	5.25	5.50	5.25			21.2
Tool			0.75	0.25	1,00	1.25	0.50			3,7
Testing			2.75	1.25	4,25	4.25	1.25			13.7
Clean Floor after DST										0.0
Logging	l						4.50			4,5
Nipple Down / Jet Cellar							1.00			1.0
LDDP / LDDC				1			2.50		<u> </u>	2.5
Run Casing / Circ / Cement	1.75						1.00	2.50		5.7
Set Slips								0,50		0,5
Lost Circulation (> 2 hrs)									ļ	0,0
Billable Hours	2.25	2.00	11.25	7.00	17.00	18.00	20.50	3.00	0.00	81.0
	<u> </u>	·····		Von-Billable He	ours (Southwine	i's time)				
Die He / Your Dave	7.25		T	T T				5.00		12.2
Rig Up / Tear Down Wait on Cement (NB)	8.00	1	 	<u> </u>						8.0
	0.76	 	 							0.7
Orill Rat Hole (<.75 hrs)	0.75		<u> </u>	1		1				0.0
Drill Plug Circulate / Trip (Surface)	0.50			1		1	1			0.
	0.30		 							0.0
Rig Repair	1,00	3.25	1.25	1,25			0.25			7.
Connections Jet/Displace	1,00	1.50	0.75	1		1				2.:
		7.30	7,75	1						0.
Surveys Gio Check	 		1							0.
Rig Check Lost Circulation (< 2 hrs)	 	 	 	·		1	1			0.
Lay Down Kelly / MH & RH	 	 	†			1				G.
Non-Billable Hrs.	17.50	4.75	2.00	1.25	0.00	0.00	0.25	5.00	0.00	30.
Mon-Disable rife.	17,50		761128095	1000 m/ 1/11 m	en (seebooks) garayees	e water Village	C 15035009 F 9 C 6 2000	00 00000000000000000000000000000000000	54 314 SECOND 1 8 5 1 (2008 5/2)	 24 VISTORIA SE NOTO NOTO SE SE
Footage Cost	\$ 3,720.00	\$ 18,360.00	\$ 6,000.00	\$ 6,960.0	0 5 2,040.00	\$ 1,536.00	\$ 984.00		\$ -	\$ 39,600.0
Daywork Cost	\$ 675.00	\$ 600.00				\$ 5,400.00	\$ 6,150.0	900.00	s -	\$ 24,300.0
Combined Est. Cost*	\$ 4,395.00	\$ 18,960.00							\$ -	\$ 63,900.0
Compilied Est. Cost	1 9 4,393,00	2 10,000,00	1 9 3,010.00	3,000.0		ternological part				

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

"LKC G"

DST #1 Info -

Footage Interval: 2215' - 2260'

DST #2 Info -

Footage Interval: 2884' - 2920' Recovery: 62' Gassy Oil Cut Mud

Recovery: 150' Mud

"LKC 8-C"

DST #3 Infa •

Recovery: 60' Oil Gassy Cut Mud

DST #4 Info •

Footage Interval: 3010' - 3140' "LKC K-L"

Footage Interval: 2951' - 2980' Recovery: 10' Mud

Footage Interval: 3150' - 3218'

DST #5 Info -

Recovery: 30' Clean Oil 50° Oil Cut Mud DST #6 Info • Footage Interval: Recovery:

Displaced @ 2084' - 2106'

\$63,900.00 Day 8 \$63,000.00 Day 7 \$55,866.00 Day 6 \$48,930.00 Day S Days vs Cost \$41,790.00 Day 4 \$32,730.00 Day 3 \$23,355.00 Day 2 Job Summary Graphical Report \$4,395.00 Day 1 Southwind Rig No. 3 Shorty #1 26.000 6.000 \$50,000 \$30,000 \$20,000 \$70,000 \$60,000 \$10,000 20 Day 9 3300 Day 8 3300 Day 7 3218 Day 6 Days vs Depth Day 5 2920 Day 4 2340 **Бау** 3 Day 2 Day 1 2500 200 1000 1500 3000 3500 2000 Depth

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. 1448

	Sec.	Twp.	Range	1 -	County	State	On Location	Finish		
Date 1/-9-15	20	14	12.	Ru	issell	k S		11:00 PM		
		٠.,	×	Locati	on Bunke	r Hill & Hwy 40	, IE,25,En	>		
Lease Shorty		<u>, </u>	Well No.		Owner					
Contractor South wi				You are here	ilwell Cementing, Inc. by requested to rent	cementing equipmen	t and furnish			
Type Job Surface		<u> </u>	n nit of a common to the commo		<u> </u>		ner or contractor to d	(
Hole Size 12/4		7	3/0		Cha.	e sup 17-	D Explora	710N		
Csg. 8 \(\frac{5}{8} \)	**************************************	Depth,	310		Street	The state of the s	*			
Tbg. Size		Depth	per and an extension to the second se		City	ALL OLD THE	State			
Tool		Depth			The above wa	is done to satisfaction a	nd supervision of owne	r agent or contractor.		
Cement Left in Csg.			oint 20		Cement Amo	ount Ordered / /O	5x 69/40 3 %co	4/0gel		
Meas Line		Displac	ce 18/9.661		,			-		
a Na (Cen	EQUIPI			·····	Common /					
Pumptrk // Help	oer <i>Bil</i>	<i>y</i>		******************	Poz. Mix	28				
Bulktrk) Driv	er Dou	3			Gel. 3			-		
Bulktrk 19 Driv	er Trav	,,			Calcium /					
JOB S	ERVICES	& REMA	RKS		Hulls					
Remarks: Cement d	d circ	ulate.			Salt					
Rat Hole		ham birni tarahan antarahan			Flowseal					
Mouse Hole	····		ayanayah iyo danaya kaba ga kaba ka		Kol-Seal					
Centralizers	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		NA CONTRACTOR OF THE STATE OF T		Mud CLR 48					
Baskets	****	MARINET PARTIES AND	er samme er sammer mer mer fer samme fer fer fer fer fer fer fer fer fer fe		CFL-117 or	CD110 CAF 38				
D/V or Port Collar	سنوا منظم المناسبة و ا	wing ne			Sand					
Şa.					Handling / 8	3 0		<u> </u>		
**************************************					Mileage.					
ent in management of the a						FLOAT EQUIPA	MENT	×e .		
		Filtery 30			Guide Shoe	NAME OF THE OWNER OWNER OF THE OWNER OWNE	<u> </u>			
				2.38	Centralizer					
J. 400 mg					Baskets					
		10 ²⁰¹² 50%) <u>8</u>	AFU Inserts					
					Float Shoe					
	¥5,85×11:	\$1,50,000 to a	70 84 956 3		Latch Down					
						·# #	و الماريخ			
					Pumptrk Ch	arge Surface	<u> </u>			
benga sa danka dika Bada di Sa Marija ya Maja dajaka da					Mileage /		- 1			
							Ta	х		
Λ	,			***********			Discour	it		
Signature Jug	Strie	M.2	THE PARTY OF THE P	***************************************			Total Charg	9		
					¬*					

QUALITY OILWELL CEWENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 1291

Cell 785-324-1041							T	Finish				
11 1. 26	Sec.	Twp.	Range		County	V State	On Location	9:30AM				
Date 11-16-15	20	14	<u> </u>	Rus	ડ્ડશી	N5	A STATE OF THE STA					
				Location	on Bunks	x 1911 + 1	My 70-1	E, 25				
Lease 5hor	t u	[,	Well No.		Owner	The second secon						
Contractor Southis	3			Valuara bore	ilwell Cementing, Inc by requested to rent	-cementina eaulomei	nt and furnish					
Type Job Production	NC				cementer an	d helper to assist ov	mer or contractor to o	lo work as listed.				
Hole Size 77/8"		T.D.	3308)Ì	Charge H+D + x Dlo Cation							
	14 #	Depth	3297	7	Street							
Tbg. Size		Depth .			City		State					
Tool		Depth		T.		as done to satisfaction	A - A	er agent or contractor.				
Cement Left in Csg.	Cr. c	Shoe J	<u>13:17</u>			1/1	S OWIC	Volt Floring				
Meas Line		Displac	<u>е 80</u>	<u> Bis</u>	200 201	Mad Clear L	18-10 BLS	KCL				
	EQUIPM	ENT			Common	25 MMBC						
Pumptrk 8 No. Ceme	enter (AUA			Poz. Mix		and the state of t					
Bulktrk O No. Drive		N			Gel.							
Bulktrk' D. Wo. Drive		_1	Andrew or more to provide a section as the		.Catcium x	16-6-	<u> </u>					
	RVICES	& REMA	RKS		Hulls							
Remarks: 10 BL	KCL	- E	efore"	Plush	Salt							
	oks				Flowseal MbH							
Mouse Hole		ALL RUSSIAN BUSSIAN ST			Kol-Seal		The state of the s					
Centralizers 1,3.5	7 2	1.4	5.61		Mud CLR 4	<u>8 500 99</u>	X.					
Baskets 2,21	. 45	.61			CFL-117 or	CD110 CAF 38						
D/V or Port Collar	Į .	ericon.			Sand	ang an spining ing ing a gray and a same and						
Dipe on bott	co agree	.b.	al Cir	Carlos	,,Handling	1/2.3	<u> </u>					
n 500	20 200 V	NUD	C Voca	48	Mileage			<i>x</i> ·				
Town Roth	10 12	1 <i>]</i> 30	N 200 (100 T) 2 TV TO	640		FLOAT EQUIP	MENT					
5/2" 10 aston	, jeny	Siv.	395 0	NOW	Guide Sho	э						
Mys Shirt don	3 16	ساحريك	-	₩	6 Centralizer							
Released plug		1650	ed hon	180	Baskets	Ч	68					
345 of	120		densel	Hold	AFU Insert							
				% //	Float Shoe	1						
LIFF piesus	, ne	10	COC	计	Latch Dow	n l	2000					
				14		<u> </u>	makes are not shade to their confidence state are recommendately applied the basis as provide state.					
Land olum	•	180	0 =	H								
- P		**************************************	2		Pumptrk C	harge Dova	Stong					
Common of	[e]	NOK	Chros	VIVIA)	Mileage /							
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Signature ()	Lui)					Total Cha	rge				