

Confidentiality Requested:

Yes No

### KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1235660

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:			Sec.	TwpS. R	East _ West
Address 2:			F6	eet from North /	South Line of Section
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section
Contact Person:			Footages Calculated from	Nearest Outside Section C	Corner:
Phone: ()			□ NE □ NW	V □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:	W	ell #:
	e-Entry	Workover	Field Name:		
	_		Producing Formation:		
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW ∏ SIGW	Elevation: Ground:	Kelly Bushing:	
	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total D	epth:
CM (Coal Bed Methane)	dow	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet
☐ Cathodic ☐ Other (Co	ore. Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes	No
If Workover/Re-entry: Old Well I			If yes, show depth set:		
Operator:			If Alternate II completion, c	cement circulated from:	
Well Name:			feet depth to:	w/	sx cmt.
Original Comp. Date:					
Deepening Re-perf	J	ENHR Conv. to SWD	Drilling Fluid Managemer	nt Plan	
Plug Back	Conv. to G		(Data must be collected from to		
Commingled	Permit #		Chloride content:	ppm Fluid volume	: bbls
Dual Completion			Dewatering method used:_		
SWD			Location of fluid disposal if	hauled offsite:	
ENHR	Permit #:				
GSW	Permit #:		Operator Name:		
			Lease Name:		
Spud Date or Date R	eached TD	Completion Date or	Quarter Sec	TwpS. R	East West
Recompletion Date		Recompletion Date	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 Approved by: Date:



Operator Name:			Lease Name: _			Well #:			
Sec Twp	S. R	East West	County:						
open and closed, flow	ring and shut-in pressu	ormations penetrated. Cures, whether shut-in prediction of the pre	essure reached stat	ic level, hydrosta	tic pressures, bot				
		otain Geophysical Data a or newer AND an image		ogs must be ema	iled to kcc-well-lo	gs@kcc.ks.go	v. Digital electronic log		
Drill Stem Tests Taken (Attach Additional S		Yes No			nd Datum	ш.			
Samples Sent to Geol	logical Survey	Yes No	Nam	ie		Тор	Datum		
Cores Taken Electric Log Run		Yes No							
List All E. Logs Run:									
		CASING	RECORD N	ew Used					
		Report all strings set-			ion, 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 / SQI	JEEZE RECORD	I	1			
Purpose:  Perforate  Protect Casing	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives					
Plug Back TD Plug Off Zone									
	ulic fracturing treatment or	n this well? aulic fracturing treatment ex	sceed 350 000 gallons	Yes		p questions 2 ar	nd 3)		
		submitted to the chemical of	=	Yes	= ' '	out Page Three	of the ACO-1)		
Shots Per Foot		N RECORD - Bridge Plug ootage of Each Interval Per			cture, Shot, Cement		d Depth		
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:					
TODING RECORD.	OILG.	Jet At.	i aunei Al.		Yes No				
Date of First, Resumed	Production, SWD or ENF	Producing Meth	nod:	Gas Lift C	Other (Explain)				
Estimated Production Per 24 Hours	Oil B	Bbls. Gas	Mcf Wat	er B	bls.	Gas-Oil Ratio	Gravity		
DISPOSITION Vented Sold	ON OF GAS:	N Open Hole	METHOD OF COMPLI		mmingled	PRODUCTIO	DN INTERVAL:		
	bmit ACO-18.)	Other (Specify)	(Submit		mit ACO-4)				

Form	ACO1 - Well Completion
Operator	H & D Exploration LLC
Well Name	Michaelis 1
Doc ID	1235660

### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.2500	8.6250	23	380	Common	225	80/20 Poz 3%cc 2%gel
Completio n	7.87	5.500	15.5	3477	Common	180	10% Salt 5% Gilsonite

#### MORNING DRILLING REPORT

Well Name: Michaelis #1 Location: 1793' FNL & 2310' FWL

Section: 25-15S-15W County: Russell APE 15-167-24007-00-00

For: H&D Exploration

SOUTHWIND DRILLING, INC.

RIG No. 8

Rig No. 8 (Pusher Darrell Volt) 620-617-1716 Rig No. (Doghouse) 620-666-7052 Southwind Drilling Office 620 564-3800

Elevation: GL 1903'

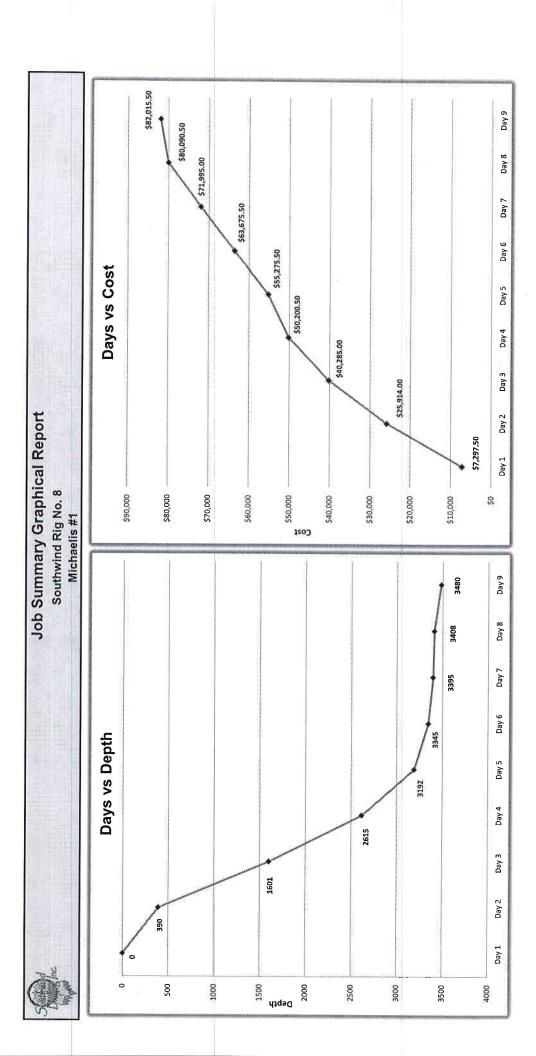
KB 1912' Est. TD: 3400'

Surface Casing: Ran 9 joints of new 23#, 8 5/8" casing, Tally @ 380,15', Set @ 390', used 225 sacks of 80/20 Poz, 3% cc, 2% get, cement circulated, by Quality (Ticket #6309), plug down @ 3:45 am on 12,05,14.

Production Info: Ran 82 joints of new 15,5#, 5 1/2" casing, Tally @ 3468", Set @ 3477', Port Collar @ 372', used 135 sacks, Common, 10% Salt, 5% Gilsonite, 30 sacks for Rat Hole, 15 sacks for Mouse Hole, cemented by Quality (Ticket #738), Job complete @ 12:00 pm on 12,12,14.

Rotary Total Depth: 3480'

WWW			ry Total Depth: og Total Depth:				Geologist:	Jim Musgrove		tu
7:00 A.M. Depth:	3480'			7:00	A.M. Curren	t Operation:	TEAR DOWN	1		
Spud Date & Time:	12/04/14	12/05/14	12/06/14	12/07/14	12/08/14	12/09/14	12/10/14	12/11/14	12/12/14	T-4-1
12/04/2014 @ 3:00 PM otal Depth (7:00am)	Day 1	390	Day 3 1601	Day 4 2615	Day 5 3192	3345	Day 7 3395	Day 8	Day 9	Total
Daily Progress	390	1211	1014	577	153	50	13	3408 72	3480	34
t. Per Hr.	52.00	79.41	50.70	36.06	18.00	25.00	17.33	26.18	#DIV/0I	47.
Surrent Operation (7:00am)	Rig Up	woc	Drilling	CFS	Short Trip	Drilling	DST#3	DST #5	LDDP	
ormation	Surface	Surface	Lime / Shale	Lime / Shale	KC	LKC	Arbuckle	Arbuckle	Arbuckle	
Fuel Used (32.4 Gal/Inch)	356,40	324,00	421.20	421.20	324.00	259.20	259.20	259.20		2624.
Survey (degree & depth)	1" @ 390"				1" @ 3192"		New York			
Aud Cost	60.00	T #0.00	\$2,216.65	#0.027.0E	eco. 25	40.00	terrio	1 64 000 00	20.00	67.007
Veight (# / Gal)	\$0.00	\$0.00	8.8	\$2,877.05	\$504,75	\$0.00	\$555.85	\$1,233.00	\$0.00	\$7,387.
/is (Funnet)			60					48		
Vater Loss (cc)						The state of the s	0.1	11.2		E LINE SHIP
Bit #1 Bit Make / Type	Reed				I	William Files				
Bit Size	12.1/4									
Sit Hours	7.50									7.
Bit #2 Lit Make / Type		Reed S52	Reed S52	Reed S52	Reed S52	D. 1050	L D Jose	D 1000		
lit Size		7 7/8	7 7/8	7 7/8	7.7/8	Reed S52 7 7/8	Reed \$52 7 7/8	Reed S52 7 7/8		
Sit Hours		15,25	20.00	16.00	8,50	2.00	0.75	2,75		65,
lit Cumulative Hours	7.50	15,25	20,00	16,00	8,50	2,00	0,75	2,75	0.00	72.
Velght on Bit (WOB)	15,000	20,000	30,000	30,000	30,000	30,000	30,000	30,000		
RPM	120	75	75	75	75	75	70	80		
Pump Pressure	370	80	700	840	820	800	810	820		
Orilling (Rotating) Hours	7,50	15.25	20.00	16.00	8,50	2,00	0.75	2.75	0.00	72,
				Daywork Hrs	. (Operator's ti	me)		and the first		
Rat Hole (>.75 Hrs)	3.25	470								8.
Vait on Cement Trip	3.25	4.75		1.25	9.00	10.75	12.25	6.00		39.
Dirculate			0.50	4.00	2.25	4.75	4.25	3.75		19.
Tool				1166 1	0.50	1.25	2.50	0.50		4.
esting					2.75	5.25	4.25	1.50		13.
Clean Floor after DST Wait on Orders								0.50		0.
ogging						-		4.00	-	4.
Vipple Down / Jet Cellar			100						1.25	1.
.DOP / LDDC								4.00		4.
Run Casing / Circ / Cement	2.00								3.75 0.50	5,
Set Slips Wait on Loggers									0,50	0.
ost Circulation (> 2 hrs)				V		1932/00				0.
Billable Hours	5.25	4.75	0,50	5.25	14,50	22.00	23.25	20.25	5,50	101.
V 41-17 - 0	7.50	2200000000		ion-Billable Ho	urs (Southwind	's time)			40.50	
Rig Up / Tear Down Vait on Cement (NB)	7,50								10.50	18.
Orill Rat Hole (<.75 hrs)	0.50									0.
Orill Plug	7.550									0.
Circulate / Trip (Surface)	0.75							12/20		0.
Rig Repair Connections	2.00	0.75 2.25	2,50	0,25 2.25	0.25			1,00		9.
Jet/Displace	0.25	1.00	1.00	0.25	7,17					2,
Surveys	0.25									0.
Rig Check										0.
Lost Circulation (< 2 hrs) Lay Down Kelly / MH & RH							-			0.
Circulate (NB)										0.
Non-Billable Hrs.	11.25	4,00	3,50	2.75	1.00	0,00	0,00	1.00	10,50	34.
Footage Cost	\$ 5,460.00	\$ 16,954.00	\$ 14,196.00	\$ 8,078.00	Z-1311	\$ 700.00	\$ 182,00	\$ 1,008.00	5 -	\$ 46,578.0
Daywork Cost	\$ 1,837.50		The state of the s		\$ 5,075.00					
Combined Est. Cost*	\$ 7,297.50		\$ 14,371.00	\$ 9,915.50						
Please note that this is estimate	d footage & daywo	rk cost only. Addit		apply on invoice (f	uel surcharge, wat	er transfer pump,	elc)			
PST #1 info - Footage interval: Recovery:		LKC "A-D"		DST #2 Info - Fe	ootage Interval: Recoverγ:	3270' - 3370' 676' Oil Cut Wat	LKC "H-J" ery Mud			
OST #3 info - Footage interval: Flecovery:	3360' - 3395' 5' Oil Cut Mud	"Arbuckle"		DST #4 Info - Fo	ootage Interval: Recovery:		"Arbuckle"			
DST #S Info - Footage Interval: Flecovery:		"Arbuckle"		DST #6 Info - Fe	ootage Interval: Recovery:		Ŷ			



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

Cell 785-324-1041

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No.

randa Sec	Twp.	Range	- 61	County	State	ter (f.)	On Locati	on	F	inish
Date 12-5-14 2	5 15	1/5	145	SPIL	KS	per un fine	Marial estat	Cr 19 4.3	54	SAM
CARACTO YASA BERLEMENE PE	The Tale		Locati	onMilberry	er INto	2540	Kny 22	1/21	15	into.
Lease Michaelis	16 N. 258.	Well No.	1010-201	Owner	Paris Inches	127 1				192
Contractor Southward	8			You are here	lwell Cementi by requested	to rent c	ementing equ	pment	and fu	nish
Type Job Surfait &	igy line ve			cementer an	d helper to as	sist own	er or contracto	r to do	work a	is listed.
Hole Size 12 1/4	T.D.	390	270 000	Charge To	HDE	Vploi	etion	Seminar III		· CALREAL
Csg. 85/8	Depth	390	8651	Street	WELL A	e dig	Maria de la composición dela composición de la composición de la composición de la composición dela composición de la composición dela composición dela composición de la composición dela composición de la composición dela composición de		9 1 25	+ 5,
Tbg. Size	Depth			City	40700 g = 2 10	RATE III.	State			
Tool	Depth	Handston on		The above wa	s done to satisf	action an	d supervision of	owner:	agent or	contractor.
Cement Left in Csg. 15	Shoe .	Joint 151		Cement Amo	ount Ordered	72	1 120	32	olC.	27090
Meas Line	Displa	ce 433//		distribution	ATTO I W		(Elgannere)		8/1.	
THE REPORT OF THE PARTY OF THE	IPMENT			Common	Mary Barry	Section 1				
Pumptrk 40 No. Cementer Helper	Wit			Poz. Mix		Mer Sou	alle ann cealle sa			A 70 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Bulktrk / No. Driver	RN	an		Gel.	istis (south Eric	(8.84 kg)		Spirit to		17.
Bulktrk No. Driver Driver	B	A PROPERTY.		Calcium					8-5	SETPLE CONT
JOB SERVIC	ES & REM	ARKS	2018 1018	Hulls	acido byla S	CAN A	way year	4.4	1064.4	e Maria e se
Remarks: ( ement &		Creviate		Salt		DE GRAN				Protection of
Rat Hole	500 23949	ment distances		Flowseal	decilia bi xi	1000			187540	<u> </u>
Mouse Hole				Kol-Seal	THE AND T	San A Si			CHIEF C	
Centralizers				Mud CLR 48	3. SERVEN	100	mrzy is	Regist		
Baskets	Selen.			CFL-117 or	CD110 CAF 3	38				12 . H . W
D/V or Port Collar	7. mate (1.10)		392.0	Sand				Musical I		CONTROL OF
The state of the state of the state of the				Handling	EAST- WHA					e jiwakakan
Some States of the State of Lines and the	VIII YOU	erwall helf tw	wha.	Mileage						
STATE STORY OF PROPERTY AND					FLOAT E	QUIPM	ENT	10 C.	di a	3 (15)
Process (Sport Aprocess)			9795	Guide Shoe			La Callerine Span			
				Centralizer					PLAS.	on the
				Baskets	THE SECTION OF THE SE	Charles A			199	Terre (Eli
the property of the second services				AFU Inserts		The second second	gave, v		1000	
The property of the control of the c				Float Shoe					0.5	
tore special as sufficient		The second secon		Latch Down		A. St. W.	14. 7.4.5.1.2		The second second	(1) 2.7h
-district of the state of the										A STATE OF THE
					DAME (U					glo-Alega
AND AND ALL REPORTS				Pumptrk Ch	arge	COLOR MA				
Triplied clay is extince with	or up each	e salemen est	etonijilos	William Profession	Mar de gertage		5325 G 10			erenja ez Sulant
THE REPORT OF THE PARTY OF THE	History II					- 50%	The state of the s	Tay	Survey.	
The transfer of the second of				e a substitut e. Market suu	All of the legal of the second		Di	scount		
X S C S S S S S S S S S S S S S S S S S	of the first		745	100	0.000		Total (			
Signature / ////////	1-1		VENE THE	_					4	TENT BUT IN

# 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. \*\*\*

Date 12 - 12 - 14	Sec.	Twp.	Range /5	P*.	County ASSE	State  {\sigma}	- On I	Location	Fini. 12.00		
Date 12 12 1					on Milbe		N 1'0	W 5	21018		
Lease Michael Contractor Southw		78	Well No. # /	J Cocas	Owner To Quality Oil	well Cementing, by requested to	Inc.			sh	
Type Job Production		1/38			cementer and	i helper to assist	t owner or cor	ntractor to d	o work as	listed.	
Hole Size 7 7/4			3480	53 1	Charge H	· D	1 1	- A		oute set le	
Csg. 5 / <sub>4</sub>		Depth	3477		Street					vî	
Tbg. Size		Depth		4 7	City		State				
Tool Port Collan		Depth	972		The above was	s done to satisfacti	ion and supervi	sion of owne	r agent or co	ontractor	
Cement Left in Csg.		Shoe J	100	72	Cement Amo		80com/0 1		1 6/	1 50m	
Meas Line		Displac	77 1 1/2	1661							
	EQUIPA				Common						
Pumptrk 5 No. Gemer Helper		2011			Poz. Mix						
Bulktrk / No. Driver Driver	7		<b></b>		Gel.				1 31	.,	
Bulktrk Pu No. Driver	0'	- I			Calcium		•				
JOB SEF		& REMA	ARKS		Hulls						
Remarks:				G. L.F	Salt						
Rat Hole * 3054					Flowseal	*					
Mouse Hole 15.5x		-1	100 - 200 (100)		Kol-Seal						
Centralizers 7,3,5	7.9	.11,1	3+60		Mud CLR 48	- 50g	bal				
Baskets 2 + 5%				400	CFL-117 or C	D110 CAF 38	- 20 bb	1 KCL			
DAY or Port Collar	59	@9	72	112	Sand	A STATE OF THE STA					
	and the same				Handling		200				
Ran 5/2	at L		21/6/11/14	706	Mileage				1		
MATRI M.	70706-0000000000000	Tush			\$ /:	FLOAT EQU	IPMENT	A CONTRACTOR OF THE PARTY OF TH	M.		
Plug RE	NO. 30 (85)	Vion			Guide Shoe		decrease and				
Mixed	135	don			Centralizer	8 .					
Displace	14.	2/4	bb!		Baskets	)		20 1			
	14		20 ALY		AFU Inserts						
Likt pir	69-10	re lu	204 - 200 - 2006		Float Shoe	4 - 14				4 5	
Landed f	Tug	(w)	140016		Latch Down	71 - 1-			1 194 1		
	o was			· Carolina	Part C	dlax -	An investment		1		
	27				Pumptrk Cha	rge	7772 / 61	le x			
	00000000V	7,700,000	305 7705	***************************************	Mileage		1000	24			
	Ť-							, Tax			
	1	11	17					Discount		and the second	
X Signature ( M-11)	W	1/2	HAW?		192 - 207		77	otal Charge			