

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1099871

Form ACO-1 June 2009 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:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from Cast / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
-	
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW	Amount of Surface Pipe Set and Cemented at: Feet
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used?
OG GSW Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:w/sx cmt
If Workover/Re-entry: Old Well Info as follows:	
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Chloride content: ppm Fluid volume: bbls
	Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	On and the Name
Dual Completion Permit #:	Operator Name:
□ SWD Permit #:	Lease Name: License #:
ENHR Permit #:	QuarterSecTwpS. R East West
GSW Permit #:	County: Permit #:
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date	

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						
Letter of Confidentiality Received						
Date:						
Confidential Release Date:						
Wireline Log Received						
Geologist Report Received						
UIC Distribution						
ALT I II Approved by: Date:						

	Side Two	
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sho	Yes	No		Log Formation (Top)			d Datum	Sample	
Samples Sent to Geolog	Yes	No	N	ame			Тор	Datum	
Cores Taken Electric Log Run Electric Log Submitted Electronically (<i>If no, Submit Copy</i>) List All E. Logs Run:		☐ Yes ☐ Yes ☐ Yes	☐ No ☐ No ☐ No						
				RECORD	New	Used			
	1	Report a	I strings set-c	conductor, surface,	Interme	ediate, productio	on, etc.		1
Purpose of String	Size Hole Drilled	Size Ca Set (In		Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					e			ement Squeeze Record d of Material Used)	Depth
TUBING RECORD:	Si	ze:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed F	Product	ion, SWD or ENHF	λ .	Producing N		ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITION OF GAS:				METHOD OF COMPLE		TION:		PRODUCTION INTER	RVAL:	
Vented Sold		Used on Lease		Open Hole	Perf.	Dually (Submit)		Commingled (Submit ACO-4)		
(If vented, Sub	mit ACC)-18.)		Other (Specify))					

HUGHES DRILLING CO.



Wellsville, Kansas 66092

Roger 913-883-2235 Darrel 913-883-4027 LEASE <u>5. MCMillen # T-4</u> FORMATION #1 Squirrel DATE: 8/30/12 Ron 913-883-4655 Clay 913-883-4383

and Chip Sample

FROM	TEET TO	TIME	MINUTES	REMARKS
714	715	2	eline construit and the first of the first o	
715	716) <i>5</i> a	Id very	lamin w/shale
716	717	<u> </u>	((Some Bleeding 714-717)
717	718	}		(Bleeding 717-719)
718	719	~	.j.,,	
719	720	- 50/1	& Sand	(Good Bleed)
720	721	- Z Sano	& lamin	w/s4ale (Fleeding)
721	722			
727	723	- gand V	eny lam	in w/shale (Bleed)
723	724	- 3 5aud	lamin, c	elshale (some Bleed)
724	725	<u></u>		
725	726	7 selid	Sand	(Some Bleed)
726	727	<u>} 70</u>	2 is som	Looks Black with some gra
727	728			Li la la Dalach
728	729	- Sand ver		Wishale 1: Hie (Aleed) Black
729	730	7 sand	Slightly	lamin w/shale (Black sand) (Some Bleed)
7.30	731			(Some Maleed)
731	732			
732	733			
7.33	734	j sd	+ shal	ELEPAT
734	735			(Possibly Fent)
735	736		Lifere and the second second second	719-728
			p 14 a mar a constant of the second strange of the second s	CCH .

HUGHES DRILLING CO.

 i_{ℓ}

Wellsville, Kansas 66092

Roger 913-883-2235 Darrel 913-883-4027

CORE TIME Ron 913-883-4655 LEASE SOUTH MOMilley #J-4 Clay 913-883-4383 FORMATION # 2 Squinnel DATE: 8/30/12 and Chip Sunpale

FROM	FEET TO	TIME	MINUTES	REMARKS
770	771.	- Sand ver	ylanin.	Astrale (going Bleed)
771	772	- Sand lan	1/1, w/24	ale (Bleeding)
772	773	3		
773	774	2 goli	& Sand	(Good Aleed)
774	775			
775	776	~~~		
776	277	7 50/10	Sand	(Blackish colon)
777	778	~		(Blooding)
778	779	- 5 g und 10	quiny w/	shale (Bleeding (BIK)
779	780	2 sand Ve		egg, wilshale -
780	781	~ (Blee	ding 77	1-780) (some Bleed 780-781)
781	782			
782	783	5 shal	1	
783	784			122
784	785			(Best Perf Zouse)
		un gan and a second of the second second second second for a second second second second second second second s	net westering to the state of t	(771-780)
			1	CCH
				na na mana mana ing pangangan na ang panganan kang ang pangang pangang pangang pangan na ng pana na ng pangang Ng pangang panga
	• •	1999 Barr & Mathematic Strategy of State and a second strategy of the second strategy of the State State State	4	
	(*)			an manan manan ang mang m
		د در ۱۹۹۹ میلود اور در ۱۹۹۹ میلود (۱۹۹۹ میلود (۱۹۹۹ میلود اور ۱۹۹۹ میلود اور ۱۹۹۹ میلود اور ۱۹۹۹ میلود اور ۱۹۹۹		
و و و و و و و و و و و و و و و و و و و				

	54 T 1625	The second se			
C	CONSOLIDATED		TIČKET	NUMBER	37500
PO Box 88	4, Chanute, KS 66720 10 or 800-467-8676		LOCATIO	IN Ottant	
DATE	CUSTOMER #	FIELD TICKET & TREATMENT	REPORT	N Casey !	Tennedy
CUSTOMER	3425 S.H	VELL NAME & NUMBER SECTIO	N TOWNSH	IP RANGE	
MAILING AD	akes Drill-	NE II	16	20	FR
12:	Masa J.	TRUCK	DRIVER	TRUCK	1
YTIC Y	STATE	ZIP CODE	Casken KeiCar	KC	
	Jille KS	66092 503	Dan Det	- DD	
ASING DEPT	H 817 DRILL PIPE	HOLE DEPTH DAT	CASING SIZE	WEIGHT 27	704 010
	SHTSLURRY VO	OL WATER gal/sk		OTHER	IS CUE
MARKS:	DIOI LAULI	MENT PSI MIX PSI	CEMENT LEFT	in CASING	14
.0 K J	wed by 10 bds	g, established circulation, n fresh water mixed + and	vixed + puny		Premiser
inent	w/ 2% gel + 1/47	# Flored per sk, cernent	ped 12d	sts ofto	Poppy
ear p		erphysic pin w/ 4.71 66	of Surface	Hushed	pump
<u>20 PS1</u>	, will reld scessu		The second se	KINT ALOU	
+	press in the press of	tor so min MIT, shirt	- in casing	- pre-	sured to
		tor so min M11, shift	-in casing		
		tor so min MIT, shirt	-in casing	-1-5	2
		tor so min MIT, shirt	-in casing	1	2
CCOUNT	QUANITY or UNITS	DESCRIPTION of SERVICES or PF	-in casing		
CODE 401	<u> </u>	- (m 20 ~4~ M(1), shift	-in casing		TOTAL
CODE 401 406	QUANITY or UNITS	DESCRIPTION of SERVICES or PF PUMP CHARGE MILEAGE	-in casing		1030.00
CODE 401 406 402	QUANITY or UNITS 1 1.5 mi 8/7	DESCRIPTION of SERVICES or PF PUMP CHARGE MILEAGE	-in casing		1030.00
CODE 401 406 402	QUANITY or UNITS	DESCRIPTION of SERVICES or PF PUMP CHARGE MILEAGE	-in casing		1030.00
CODE 401 406 402	QUANITY or UNITS 1 1.5 mi 8/7	DESCRIPTION of SERVICES or PF PUMP CHARGE MILEAGE Casing footage ton inileage	-in casing		1030.00
CODE 401 406 402 402 402	QUANITY or UNITS 1 15 mi 8/7' Minimum 120 Ses	DESCRIPTION of SERVICES or PF PUMP CHARGE MILEAGE Casing footage ton inileage	-in casing		1030.00
CODE 401 406 402 407 407 407	QUANITY or UNITS 15 mi 8/7/ Minimum 120 stes 302 th	DESCRIPTION of SERVICES or PF PUMP CHARGE MILEAGE Casing footage ton inileage Soloo Poznix cement Premium G. OL	-in casing		1030.00 100.00 350.00 1314.00 63.42
CODE 401 406 402 402 402 402 402 402 402 402 402 402	QUANITY or UNITS 1 15 mi 8/7' Minimum 120 Ses	DESCRIPTION of SERVICES or PF PUMP CHARGE MILEAGE Casing footage ton inileage Soloo Positive cement Prentium C. cl Flo Seal	-in casing		1030,00 60,00 350,00 1314,00 63.42 70,50
CODE 401 406 402 407 407 407 24 1813 07	QUANITY or UNITS 15 mi 8/7/ Minimum 120 stes 302 th	DESCRIPTION of SERVICES or PF PUMP CHARGE MILEAGE Casing footage ton inileage Soloo Poznix cement Premium G. OL	-in casing		1030.00 100.00 350.00 1314.00 63.42
CODE 401 406 402 402 402 402 402 402 402 402 402 402	QUANITY or UNITS 15 mi 8/7/ Minimum 120 stes 302 th	DESCRIPTION of SERVICES or PF PUMP CHARGE MILEAGE Casing footage ton inileage Soloo Positive cement Prentium C. cl Flo Seal	-in casing		1030,00 60,00 350,00 1314,00 63.42 70,50
CODE 401 406 402 402 407 24 813 24	QUANITY or UNITS 15 mi 8/7/ Minimum 120 stes 302 th	DESCRIPTION of SERVICES or PF PUMP CHARGE MILEAGE Casing footage ton inileage Soloo Positive cement Prentium C. cl Flo Seal	-in casing		1030,00 60,00 350,00 1314,00 63.42 70,50
401	QUANITY or UNITS 15 mi 8/7/ Minimum 120 stes 302 th	DESCRIPTION of SERVICES or PF PUMP CHARGE MILEAGE Casing footage ton inileage Soloo Formix cement Prentium G.OL Flosgal 21/5" rubber plug	-in casing		1030,00 60,00 350,00 1314,00 63.42 70,50
CODE 401 402 402 407 407 407 407 18:13 07	QUANITY or UNITS 15 mi 8/7/ Minimum 120 stes 302 th	DESCRIPTION of SERVICES or PF PUMP CHARGE MILEAGE Casing footage ton inileage Soloo Formix cement Prentium G.OL Flosgal 21/5" rubber plug	-in casing		1030,00 60,00 350,00 1314,00 63.42 70,50
CODE 401 402 402 407 407 407 407 18:13 07	QUANITY or UNITS 15 mi 8/7/ Minimum 120 stes 302 th	DESCRIPTION of SERVICES or PF PUMP CHARGE MILEAGE Casing footage ton inileage Soloo Formix cement Prentium G.OL Flosgal 21/5" rubber plug	-in casing		1030,00 60,00 350,00 1314,00 63.42 70,50
CODE 401 402 402 402 407 407 407 1813 07	QUANITY or UNITS 15 mi 8/7/ Minimum 120 stes 302 th	DESCRIPTION of SERVICES or PF PUMP CHARGE MILEAGE Casing footage ton inileage Soloo Formix cement Prentium G.OL Flosgal 21/5" rubber plug	-in casing	IED	1030,00 60,00 350,00 1314,00 63.42 70,50

knowledge that the payment terms, unless specifically amended In writing on the front of the form or in the customer's count records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Sec	:11, тм	p.16.	Rng.20	
	Fr.	Co., ł	Kansas	
-	4480	FSL	1545	FEI
A	PI# 15	-059	-26172	-

STRATA THICKNESS

3

39

FORMATION DRILLED

Sail

1.low

T.D.

3

42

HUGHES DRILLING REPORT

PERMANENT CSG.

Well No FamS. Man len

SURFACE CASING Feel 43,05 Circulated 13 sx cement

Size..... Feet......

Contractor HUGHES DRILLING CO.

	ці " ² а	57.7	1	T. D. at Completion .	<u>a</u> 27	(Z)	SINCE	63
OPERATO	orther	NIN S	1712	Contractor HUGHE	S DRILLING CO.		LIME	90
		1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	WAR COLLUNCE			9	Should	199
DATE		PROM	LLED	REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY	9	ime	108
8/29/	10	0	3	50:1	1221,5.21	1	Shale	115
	2			2		[<u>15</u>	Lime	130
43		3	42	clay	Q 22.5-44,2		SMAR	199
8/30	1/12	42	63	shale	3225.66	Suma and a sum a superior of the sub-	ar.sound	152)
5 %	Pas	63	90	Lino	Q225- 89.0	12	Sivale	194
and the same of the second		99	99	Shale	(5) 2.2.5-115		Lime Shale	199
1		99	108	Lime	(1) 22.5-1340	12	Gi sand	2,1)
02-002		are stated	115	shale	(122.5-156.5	57	Shup	2.68
		eller en angementen	and the second states and the second		(8)225-1790	22	Lime	290
	ļ	115	130	Line			Shale	305
2		130	144	Shall (Red Bed 136-138	20122 201.3	8	Lime	313
		144	154	Gray Sand	(2) 22.5-2,24.		Shale	337
		154	166	shule	(1) 225-2463	10	Lime	347
	1			Link	JP22 5-2490	Lal	stante	374
		194	199	shak	1922 5- 291.5	1 TOU Land	Shall	397
	1	1.0.0.	1				Live	212)
	Ĵ	199	12-11	Gray Banch	(1)22.5-314.0	1 71	shale	435
		211	1268	Shale	12225-336.5		Lime	439
		268	1290	LIME	16/22.5- 359.0	the second se	shall	44)
		1290	205	Shave (Broken 296-301)	(TD22.5-3815	Hestwer 6	Lime	447
				Lime	(18)225-404.	p <u>118</u>	shale	565
	; 1				(1922 5- 426.5		sdy Lime	569
				Shale	(2022.5- 449.0		Sinule	601
			391	Lime		[]	Shurk	(22)
		347	1374	Shute Broken 357-359	3 22.5- 471.5		Livhe	630
-	6)	274)	1397	Lime	(22)22.5- 4944		Shall	GHAO
		397	406	Shale Cslate 404-405	13225- 516.5		Line	644
·	121 -			Lime	5-9272.5-539.0	7	Shale	651
l	12 ⁻			Shall (Slate 438-3434)	(25)22.5-561.5	10	Lime	661
		431	100	Dhard Colores 400 370 D	(26)22.5-584.0	16	, Shale	613
		435	434	Lime	and the second second		Linge	676
	il Banarda an	1439	1441	Shale	(LD22.5-606.)	10	Smale	686

Sec.1	, Twp.16	Rng.20	(P5
I 44	Co.,	Kansas 1520	FEL
	15-039	1-2619.	8

2

HUGHES DRILLING REPORT

Well No. I-H Size STRATA Farm S. M.Limillen Feet Feet	1 CODUM	CONTRACTOR OF A DESCRIPTION OF A DESCRIP
FarmS. MLMIICAL Feet. Feet.	5 Lir	1
Circulated sx cement	0 54	112 701
T. D. at Completion	6 Lin	Cranto and a state of the state
OPERATOR HUGHES DRILLING CO.	7 540	/ / / /
\$1.30, 1	17 591	and a new course of a service of the
DATE DRILLED REMARKS - TYPE WORK - BILLING REF. PIPE TALLY	39 540	
Hortha" 441 447 Lime (23) 32.5-629.0 #2 54	11 Sand	781
	46 Shale	\$27
I glint and		TP
365 169 Sdy Lime (3022.5-674.0)		
Sig 169 shall (3-24+5 599-600) Broken 600-600		
689 610 Sand (Laminated w/ shale - 0il True)		
610 621 Shull 3D22,5-6965		
(33 640 Shale E32225-741.5		
640 644 Line 3422.5-764.0		
644 651 Skale (Slate 644-645)		i
651 661 Lime 632 5-809.0		
661 1:73 Shale		
673 676 LIME (Brown)		
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
676 686 Share 676-677) (Broken 682-686)		
636 691 Linx	a se province	
691701 shale		
TOI TOT L'IMP (oil show)		
707 714 Shale		
It 1 3gvinel 714 731 Sand (Remarks Pg3)		
731,770 Shale (Sdy 731-736)[Line HIX 768)		
Ha Samirrell 720 781 Sand Benanky pay 1)		
781 829 Shale		
827 TD		1
3/31/12 - Set 817 of 218 8nd EU	10,0%	20:
BOIT 97 8101		
used 3 centralizora		