Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1372884

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 # 5682
Name: Hughes Drilling Co, a General Partnership
Address 1: 122 MAIN
Address 2:
City: WELLSVILLE State: KS Zip: 66092 + 8522
Contact Person: Clay Hughes
Phone: (785) 883-2235
CONTRACTOR: License # 5682
Name: Hughes Drilling Co, a General Partnership
Wellsite Geologist: NA
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 #:

6/9/2017 Spud Date or Recompletion Date
6/13/2017 Date Reached TD
6/13/2017 Completion Date or Recompletion Date

API No.: 15-059-27152-00-00
Spot Description:
SE - SW - NW - NE Sec. 11 Twp. 16 S. R. 20 ☑ East ☐ West
4280 Feet from ☐ North / ☑ South Line of Section
2120 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Franklin
Lease Name: SOUTH MCMILLEN Well #: 14
Field Name:
Producing Formation: Squirrel
Elevation: Ground: 975 Kelly Bushing: 975
Total Vertical Depth: 762 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 30 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: 1500 ppm Fluid volume: 20 bbls
Dewatering method used: Evaporated
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:** Karen Ritter **Date:** 11/09/2017

[redacted] 1372884

Operator Name: Hughes Drilling Co, a General Partnership Lease Name: SOUTH MCMILLEN Well #: 14

Sec. 11 Twp. 16 S. R. 20 ☑ East ☐ West County: Franklin

INSTRUCTIONS: Show important tops 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.

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 *(Attach Additional Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☑ Yes	☐ No
Electric Log Run	☐ Yes	☑ No
Geolgist Report / Mud Logs	☐ Yes	☑ No

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
NA	NA	NA

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
Surface	9	6.250	10	30	Common	12	50/50 POZ
Production	5.625	2.875	8	749	Common	104	50/50 POZ

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

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Hughes Drilling Co, a General Partnership
Well Name	SOUTH MCMILLEN 14
Doc ID	1372884

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	9	6.250	10	30	Common	12	50/50 POZ
Production	5.625	2.875	8	749	Common	104	50/50 POZ

P91

Sec. 1, Twp. 16, Rng. 20
KS Co., Kansas
4280 FSL 2120 FEL
API # 15-059-27152

HUGHES DRILLING REPORT

SURFACE CASING
Well No. 14
Farm S. Wilmilla
Size 6 1/4
Feet 30
Circulated 12 sx cement

PERMANENT CSG.
Size 2 3/8 3rd EUE (used)
Feet 749.85 of 8 pc Float shoe on bottom

T. D. at Completion 762
OPERATOR Hughes Drilling
Contractor HUGHES DRILLING CO.

DATE	DRILLED FROM	DRILLED TO	REMARKS – TYPE WORK – BILLING REF.	PIPE TALLY
6-9-17	0	2	soil	(1) 21.5 - 21.5
30'	2	28	clay	(2) 22.5 - 44.0
6-12-17	28	44	Shale	(3) 22.5 - 66.5
PDC	44	50	Lime	(4) 22.5 - 89.0
5 paddle 5 3/8	50	53	Shale (slate 50-51)	(5) 22.5 - 111.5
	53	71	Lime	(6) 22.5 - 134.0
	71	78	Shale (slate 72-73)	(7) 22.5 - 156.5
	78	89	Lime	(8) 22.5 - 179.0
	89	93	Shale	(9) 22.5 - 201.5
	93	110	Lime	(10) 22.5 - 224.0
	110	142	Shale	(11) 22.5 - 246.5
	142	172	Lime	(12) 22.5 - 269.0
	172	174	Shale	(13) 22.5 - 291.5
	174	177	Coal Sand	(14) 22.5 - 314.0
	177	243	Shale	(15) 22.5 - 336.5
	243	264	Lime	(16) 22.5 - 359.0
	264	282	Shale	(17) 22.5 - 381.5
	282	289	Lime	(18) 22.5 - 404.0
	289	316	Shale	(19) 22.5 - 426.5
	316	326	Lime	(20) 22.5 - 449.0
	326	350	Shale (Lime 333-334)	(21) 22.5 - 471.5
30'	350	373	Lime	(22) 22.5 - 494.0
	373	381	Shale (slate 373-374)	(23) 22.5 - 516.5
20'	381	405	Lime	(24) 22.5 - 539.0
	405	409	Shale (slate 405-406)	(25) 22.5 - 561.5
	409	413	Lime	(26) 22.5 - 584.0
	413	416	Shale	(27) 22.5 - 606.5

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	soil	2
26	clay	28
16	Shale	44
6	Lime	50
3	Shale	53
18	Lime	71
7	Shale	78
11	Lime	89
4	Shale	93
17	Lime	110
32	Shale	142
30	Lime	172
2	Shale	174
3	Gr. Sand	177
66	Shale	243
21	Lime	264
18	Shale	282
7	Lime	289
27	Shale	316
10	Lime	326
24	Shale	350
23	Lime	373
8	Shale	381
24	Lime	405
4	Shale	409
4	Lime	413
3	Shale	416
Hertha 5	Lime	421
158	Shale	579
8	Sand	587
10	Shale	597
8	Lime	605
22	Shale	627
8	Lime	635
12	Shale	647
3	Lime	650
9	Shale	659
3	Lime	662
8	Shale	670
8	Lime	678
5	Shale	683

HUGHES DRILLING REPORT

Fr. Co., Kansas
4280 FSL 2120 FEL
API # 15-059-27152

SURFACE CASING — PERMANENT CSG.

Well No. 14 — Size — Size
Farm S. McMillen — Feet — Feet
Circulated ____ sx cement

OPERATOR Hughes Drilling — T. D. at Completion 762
Contractor HUGHES DRILLING CO.

DATE		DRILLED FROM	DRILLED TO	REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
"Hughes"		416	421	Lime	(18) 225-629.0
		421	579	Shale Broken 424-429 (Brown 571-574)	(29) 225-651.5
		579	582	Sand (Slight odor)	(30) 225-674.0
		582	592	Shale	(31) 225-696.5
		592	600	Lime	(32) 225-719.0
		600	622	Shale	(33) 225-741.5
		622	630	Lime	
		630	642	Shale	
		642	645	Lime (Brown)	
		645	654	Shale	
		654	659	Lime	
		659	667	Shale	
		667	675	Lime (Oil show 667-670)	
		675	683	Shale	
		683	684	Gray Sand (Hard)	
		684	687	Shale (Sandy) 684-685 oil trace	
6-B-17		688	689	Lt. Brown Sand	
689'	#1 Square	689	698	Broken Oil Sand (core time pg. 3)	
		698	724	Shale	
		724	725	Lime	
		725	732	Shale	
		732	733	Lime	
		733	734	Shale	
	#2 Square	734	737	Lt. Brown Sand (No Oil)	
		737	762	Shale	
		762		TD	

STRATA THICKNESS	FORMATION DRILLED	T.D.
1	Gray Sand	684
3	Shale	687
2	Lt. Br. Sand	689
#1 Sq. 9	Brk Sand	698
26	Shale	724
1	Lime	725
7	Shale	732
1	Lime	733
1	Shale	734
3	Lt. Br. Sand	737
45	Shale	782
	T.D.	

6-B-17 Set 749.85 at 2nd Eve (Used)
Used 3 centralizers Float shoe on Bottom

PS-3

HUGHES DRILLING CO.

Wellsville, Kansas 66092

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

Ron 913-883-4655
Clay 913-883-4383

CORE TIME

LEASE S. McMillen #1-J

FORMATION #1 Squirrel

DATE: 6-13-17

(RPM PDC)

FROM	FEET TO	TIME	MINUTES	REMARKS
687	688	chip sample	—	} Lt. Brown Sand
688	689	chip sample	—	} Oil Trace
(1) 689	690	9:32:00 - 9:33:00	1:00	- Solid Sand 689-689.5 (B.O.)
(2) 690	691	9:34:15	1:15	- Sand lamin. w/shale 689.5-690.5
(3) 691	692	9:35:30	1:15	} Solid Sand 690.5-692.5 (B.O.)
(4) 692	693	9:36:30	1:00	
(5) 693	694	9:37:45	1:15	} Sand very lamin. w/shale (B.O.) 692.5-693
(6) 694	695	9:38:45	1:00	
(7) 695	696	9:40.00 Stop 4#	1:15	- Sand slightly lamin. w/shale (B.O.)
(8) 696	697	9:44:00 - 9:45:15	1:15	- Sand very lamin. w/shale B.O.
(9) 697	698	9:46:45	1:30	(Some sand 697.5-698 (Bleeding)
(10) 698	699	9:48:30	1:45	
(11) 699	700	9:50:15	1:45	} Shale
(12) 700	701	9:52:15	2:00	
(13) 701	702	9:54:15	2:00	
(14) 702	703	9:56:15	2:00	
(15) 703	704	9:57.45	1:30	
(16) 704	705	Stop		
(17) 705	706			Best Perf Zone 689-698
(18) 706	707			
(19) 707	708			Do 4 shots per ft
(20) 708	709			Ect

QES

PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

8363 / 4261

TICKET NUMBER 53829
LOCATION Ottawa, KS
FOREMAN Chay Kennedy

FIELD TICKET & TREATMENT REPORT
CEMENT

810507

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6/13/17	3425	S. McMillan # 14	NE 11	16	20	FR

CUSTOMER: Hughes Drilling
MAILING ADDRESS: 122 Main
CITY: Wellsville | STATE: KS | ZIP CODE: 66092

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Cas Kan	✓	Safety Meeting
467	Kei Car	✓	
804	Her Bar	✓	

JOB TYPE: Longstring | HOLE SIZE: 5 5/8" | HOLE DEPTH: | CASING SIZE & WEIGHT: 2 7/8" EUE
CASING DEPTH: 749 | DRILL PIPE: | TUBING: | OTHER:
SLURRY WEIGHT: | SLURRY VOL: | WATER gal/sk: | CEMENT LEFT in CASING:
DISPLACEMENT: 4.34 bbls | DISPLACEMENT PSI: | MIX PSI: | RATE: 4 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 100 # Gel followed by 5 bbl fresh water, mixed & pumped 104 sks Portblend 1A cement w/ 2% gel + ¼ # Floseal per sk, cement to surface, flushed pump clean, pumped 2½" rubber plug to casing TD w/ 4.34 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE0002	15 mi	MILEAGE	107.25	
CE0711	min	ton mileage	660.00	
		trucks	2267.25	
		-55 %	1246.99	
		subtotal		1020.26
CC5840	104 sks	Portblend 1A cement	1404.00	
CC5965	275 #	Gel	82.50	
CC6075	26 #	Floseal	52.00	
CP8176	1	2½" rubber plug	45.00	
		materials	1583.50	
		-55%	870.93	
		subtotal		712.58
		8%	SALES TAX	57.01
			ESTIMATED TOTAL	1789.85

Ravin 3737

AUTHORIZTION: [signature] TITLE: DATE: 6/13/17

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the custo account records at our office, and conditions of service on the back of this form are in effect for services identifie