Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1224665

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 # 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 ☐ 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:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

7/18/2014	7/22/2014	7/22/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-059-26750-00-00
Spot Description:
NE NW SW SE Sec. 2 Twp. 16 S. R. 20 ☑ East ☐ West
1315 Feet from ☐ North / ☑ South Line of Section
2046 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: North McMillen Well #: 19
Field Name:
Producing Formation: Squirrel
Elevation: Ground: 961 Kelly Bushing: 0
Total Vertical Depth: 807 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 26 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: 26 w/ 8 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 1500 ppm Fluid volume: 80 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: 09/25/2014
☑ **Confidential Release Date:** 09/24/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 09/25/2014

[redacted] 1224665

Operator Name: Hughes Drilling Co, a General Partnership Lease Name: North McMillen Well #: 19

Sec. 2 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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

GammaRay/Neutron/CCL

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

Name	Top	Datum
GammaRay		

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	7	10	26	Portland	8	50/50 POZ
Completion	5.6250	2.8750	8	801	Portland	106	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	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☑ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☑ No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	735.5-741.5	2" DML RTG	6

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 7/22/2014

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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Form	ACO1 - Well Completion
Operator	Hughes Drilling Co, a General Partnership
Well Name	North McMillen 19
Doc ID	1224665

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	7	10	26	Portland	8	50/50 POZ
Completion	5.6250	2.8750	8	801	Portland	106	50/50 POZ

CONSOLIDATED
Oil Well Services, LLC

269825

TICKET NUMBER 47427
LOCATION Ottawa, KS
FOREMAN Casey Kennedy

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7/22/14	3425	N. McMillen #19	SE 2	16	20	FR

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

TRUCK #	DRIVER	TRUCK #	DRIVER
729	CasKen	✓	Safety Meeting
666	KeiCar	✓	
548	DanWha	✓	

JOB TYPE: longstring | HOLE SIZE: 5 5/8" | HOLE DEPTH: 807' | CASING SIZE & WEIGHT: 2 7/8" EUE
CASING DEPTH: 801' | DRILL PIPE: | TUBING: baffle - 773' | OTHER:
SLURRY WEIGHT: | SLURRY VOL: | WATER gal/sk: | CEMENT LEFT in CASING:
DISPLACEMENT: 4.47 bbls | DISPLACEMENT PSI: | MIX PSI: | RATE: 5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 200# Premium Gel followed by 10 bbls fresh water, mixed & pumped 106 sks 50/50 Pozmix cement w/ 2% gel & 1/4 # Flosea per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to baffle w/ 4.47 bbls fresh water, pressured to 800 PSI, released pressure, shut in casing.

Customer supplied H_2O

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00
5406	15 mi	MILEAGE		63.00
5402	801'	casing footage		—
5407	minimum	ton mileage		368.00
1124	106 sks	50/50 Pozmix cement	1219.00	
1118B	378 #	Premium Gel	83.16	
1107	27 #	Flosea	66.69	
		materials	1368.85	
		-30 %	410.66	
		subtotal		958.19
4402	1	2 1/2 rubber plug		29.50
			3021.32	
		7.65%	SALES TAX	75.56
			ESTIMATED TOTAL	2579.25

Ravin 3737

AUTHORIZTION Casey TITLE DATE

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

HUGHES DRILLING REPORT

Sec. 2, Twp. 16, Rng. 22
Fr. Co., Kansas
1315 FSL 2046 FEL
API # 15-059-26350

Well No. #9
Farm A.L. Macmillan

SURFACE CASING
Size 7"
Feet 26.90
Circulated 3 ex cement

PERMANENT CSG.
Size 2 3/8 rd EUE new
Feet 801 of pipe
Baffle at 771.5
Float shoe on Bottom
T. D. at Completion 807'

OPERATOR Hughes Drilling
Contractor HUGHES DRILLING CO.

DATE	DRILLED FROM	DRILLED TO	REMARKS — TYPE WORK — BILLING REF.	PIPE TALLY
7/8/14	0	3	soil	(1) 21.5 - 21.5
26'	3	24	clay	(2) 22.5 - 44.0
7/21/14	24	39	Shale	(3) 22.5 - 66.5
5 5/8	39	62	Lime	(4) 22.5 - 89.0
PDC Bit	62	69	Shale	(5) 22.5 - 111.5
	69	79	Lime	(6) 22.5 - 134.0
	79	86	Shale	(7) 22.5 - 156.5
	86	105	Lime	(8) 22.5 - 179.0
	105	139	Shale (Sandy 115-133)	(9) 22.5 - 201.5
	139	176	Lime	(10) 22.5 - 224.0
	176	237	Shale	(11) 22.5 - 246.5
	237	259	Lime	(12) 22.5 - 269.0
	259	275	Shale	(13) 22.5 - 291.5
	275	284	Lime	(14) 22.5 - 314.0
	284	312	Shale	(15) 22.5 - 336.5
	312	322	Lime	(16) 22.5 - 359.0
	322	328	Shale	(17) 22.5 - 381.5
	328	329	Lime	(18) 22.5 - 404.0
	329	345	Shale	(19) 22.5 - 426.5
30'	345	369	Lime (Some Bleeding 345-348)	(20) 22.5 - 449.0
	369	376	Shale (Slate 369-370)	(21) 22.5 - 471.5
20'	376	400	Lime	(22) 22.5 - 494.0
	400	404	Shale (Slate 402-401)	(23) 22.5 - 516.5
	404	407	Lime	(24) 22.5 - 539.0
	407	409	Shale	(25) 22.5 - 561.5
"Hertha"	409	416	Lime	(26) 22.5 - 584.0
	416	531	Shale (BREAK 419-423) (Sandy 460-472)	(27) 22.5 - 606.5

STRATA THICKNESS	FORMATION DRILLED	T.D.
3	soil	3
21	clay	24
15	Shale	39
23	Lime	62
7	Shale	69
10	Lime	79
7	Shale	86
19	Lime	105
28	Shale	139
37	Lime	176
61	Shale	237
22	Lime	259
16	Shale	275
9	Lime	284
28	Shale	312
10	Lime	322
6	Shale	328
1	Lime	329
16	Shale	345
24	Lime	369
7	Shale	376
24	Lime	400
4	Shale	404
3	Lime	407
2	Shale	409
7	Lime	416
115	Shale	531
5	Gr. Sand	536
37	Shale	573
4	Gr. Sand	577
10	Shale	587
8	Lime	595
10	Shale	605
5	Lime	610
5	Shale	615
8	Lime	623
14	Shale	637
3	Lime	640
7	Shale	647
7	Lime	655
28	Shale	683

112 ppm cut

Sec. 2, Twp. 16, Rng. 20 Fr. Co., Kansas
1315 FSL 2046 FEL
API # 15-059-25675

(PG 2)

HUGHES DRILLING REPORT

SURFACE CASING
Well No. #19
Farm Williamson
Size
Feet
Circulated ____ sx cement

PERMANENT CSG.
Size 2 7/8 3rd EUE new
Feet 801 of pipe
Baffle at 772 Float shoe on Bottom
T. D. at Completion 807

OPERATOR Hughes Drilling
Contractor HUGHES DRILLING CO.

DATE	DRILLED FROM	DRILLED TO	REMARKS – TYPE WORK & DRILLING REF.	PIPE TALLY
7/ prev"	531	536	Gray Sand (No show)	(28) 22.5-629.0
	536	573	Shale (BRK@ 554-566)	(29) 23.5-652.5
W-side	573	577	Gr. sandy (Good Bleeding oil)	(30) 22.5-674.0
	577	587	Shale	(31) 22.5-696.5
	587	595	Lime	(32) 22.5-719.0
	595	605	Shale	(33) 22.5-741.5
	605	610	Lime	(34) 22.5-764.0
	610	615	Shale (Slate 610-611)	(35) 22.5-786.5
	615	623	Lime	
	623	637	Shale	
	637	640	Lime (Brown)	
	640	647	Shale	
	647	655	Lime	
	655	670	Shale	
	670	672	Lime	
	672	683	Shale (Gray hard sand 681-683)	
1 Squirrel	683	697	Oil Sand (Core Time Pg. 3)	
	697	729	Shale (Lime Break 705) (Lime Break 723)	
697'	729	730	Lime	
7/22/14	730	743	Sand (Remarks pg. 4)	
	743	792	Shale	
	792	793	Lime	
	793	807	Shale	
		T.D.		
		7-22-14	Set 801 of 2 7/8 3rd EUE (New)	
			Baffle at 772.95 Float shoe on Bottom	
			used 3 centralizers	

STRATA THICKNESS	FORMATION DRILLED	T.D.
Sd. 14	oil sand	697
30	Shale	729
1	Lime	730
Sd. 13	Sand	743
49	Shale	792
1	Lime	793
14	Shale	807
		T.D.

Start core 731
T.D. 731
K.D. 19

No Jts on trailer

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 N. Mauillen #19

FORMATION #1 Squirrel

DATE: 7-21-14

(REM 3" Shave Bit)

FEET FROM	TO	TIME	MINUTES	REMARKS
683	684	chip sample	—	Sand lamin. w/shale (Bleeding)
1) 684	685	3:01:00-3:01:30	:30	
2) 685	686	3:02:15	:45	Solid Sand (exc. Bleed)
3) 686	687	3:02:45	:30	
4) 687	688	3:03:30	:45	
				Shale 688-688.5
5) 688	689	3:04:15	:45	
6) 689	690	3:05:00	:45	Solid Sand (A few sandy Lime Nodules 688.5-690 (exc. Bleed)
7) 690	691	3:05:45	:45	
8) 691	692	3:06:45	1:00	
9) 692	693	3:07:45	1:00	
10) 693	694	3:08:45	1:00	Sdy shale w/scattered STRips of Sand (Little Bleed)
11) 694	695	3:09:45	1:00	
12) 695	696	3:10:45	1:00	
13) 696	697	3:11:45	1:00 Est	Shale
14) 697	698			
15) 698	699			
16) 699	700			
17) 700	701			Best Perf Zone 684-690 CCH
18) 701	702			
19) 702	703			
20) 703	704			

Pg 4

HUGHES DRILLING CO.

Wellsville, Kansas 66092

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

Ron 913-883-4855
Clay 913-883-4883

CORE TIME

LEASE N. McMillen #19

FORMATION #2 Squirrel

DATE: 7-22-14

(FROM 5" slave bit)

	FEET FROM	TO	TIME	MINUTES	REMARKS
	730	731	(dry) samples		
1	731	732	10:29:00-10:29:45	:45	Sand lamin. w/shale (some Bleed)
2	732	733	10:30 :45	1:00	
3	733	734	10:31 :30	:45	Solid Sand (little Bleed)
4	734	735	10:32 :15	:45	(shows water)
5	735	736	10:33 :00	:45	Sand lamin. w/shale (Bleeding)
6	736	737	10:34:00	1:00	
7	737	738	10:34 30	:30	Solid Sand (exc. Bleed)
8	738	739	10:35 :15	:45	
9	739	740	10:36 :00	:45	Sand lamin. w/shale (Bleeding)
10	740	741	10:36 :30	:30	Sand slightly lamin. w/shale
11	741	742	10:37 :15	:45	(exc. Bleed)
12	742	743	10:38 :00	:45	wafered Black Sand
13	743	744	10:39 :15	1:15	Bleeding heavy oil
14	744	745	10:40 :15	1:00	(20 gravity)
15	745	746	10:41 :15	1:00 Stop	Shale
16	746	747			
17	747	748			
18	748	749			Best Perf Zone
19	749	750			735.5 - 741.5
20	750	TD			CCH