[redacted] 1271023

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

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 #:

10/10/2015 Spud Date or Recompletion Date
10/15/2015 Date Reached TD
10/15/2015 Completion Date or Recompletion Date

API No.: 15-059-27060-00-00
Spot Description:
NW - SW - SW - SE Sec. 2 Twp. 16 S. R. 20 ☑ East ☐ West
345 Feet from ☐ North / ☑ South Line of Section
2595 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 #: I-5
Field Name:
Producing Formation: Squirrel
Elevation: Ground: 952 Kelly Bushing: 0
Total Vertical Depth: 808 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 31 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: 11/11/2015
☑ **Confidential Release Date:** 11/10/2017
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☐ **Geologist Report / Mud Logs Received**
☑ **UIC Distribution**
ALT ☐ **I** ☑ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 11/12/2015

[redacted] 1271023

Operator Name: Hughes Drilling Co, a General Partnership Lease Name: North McMillen Well #: I-5

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

Geolgist Report / Mud Logs ☐ Yes ☐ No

List All E. Logs Run:

GammaRay/Neutron/CCL

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

Name	Top	Datum
GammaRay	20	GL

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	31	Portland	12	50/50 POZ
Production	5.625	2.875	8	794	Portland	113	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: ☐ 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)*

PRODUCTION INTERVAL:

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	North McMillen I-5
Doc ID	1271023

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	31	Portland	12	50/50 POZ
Production	5.625	2.875	8	794	Portland	113	50/50 POZ

Sec. 6, Twp. 16, Rng. 20E
Franklin Co., Kansas
345 FSL 2295 FEL
API # 15-059-27000

HUGHES DRILLING REPORT

Well No. J-5
Farm Mc Millen

SURFACE CASING
Size 7"
Feet 31'
Circulated 12 sx cement

PERMANENT CSG.
Size 2 7/8 8rd EUE (New)
Feet 799' of pipe Baffle at 165.60
Float shoe on Bottom

T. D. at Completion 808
Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

DATE	DRILLED FROM	DRILLED TO	REMARKS – TYPE WORK – BILLING REF.	PIPE TALLY
10/10/15	0	3	Soil	(1) 21.5 - 21.5
3/1	3	26	clay	(2) 22.5 - 44
10/10/15	26	40	Shale	(3) 22.5 - 66.5
5/8	40	63	Lime	(4) 22.5 - 89
PDC Bit	63	71	Shale	(5) 22.5 - 111.5
	71	81	Lime	(6) 22.5 - 134
	81	87	Shale	(7) 22.5 - 156.5
	87	105	Lime	(8) 22.5 - 179
	105	142	Shale	(9) 22.5 - 201.5
	142	175	Lime	(10) 22.5 - 224
	175	239	Shale (Sdy Lime 185-190)	(11) 22.5 - 246.5
	239	241	Lime	(12) 22.5 - 269
	241	280	Shale	(13) 22.5 - 291.5
	280	286	Lime	(14) 22.5 - 314
	286	315	Shale (Lime 305-310)	(15) 22.5 - 336.5
	315	326	Lime	(16) 22.5 - 359
	326	342	Shale Lime 330-332)	(17) 22.5 - 381.5
3/1	342	372	Lime	(18) 22.5 - 404
	372	381	Shale, slate 380-381)	(19) 22.5 - 426.5
2/1	381	385	Lime	(20) 22.5 - 449
	385	429	Shale, Slate 408-412)	(21) 22.5 - 471.5
	429	443	Lime	(22) 22.5 - 494
	443	475	Shale	(23) 22.5 - 516.5
"Shale"	475	492	Lime	(24) 22.5 - 539
	492	501	Shale (BLK 492-494, 498-500)	(25) 22.5 - 561.5
"Peru"	501	515	Lime (Sdy)	(26) 22.5 - 584
	515	545	Shale	(27) 22.5 - 606.5

STRATA THICKNESS	FORMATION DRILLED	T.D.
3	Soil	3
23	clay	26
14	Shale	40
23	Lime	63
8	Shale	71
10	Lime	81
6	Shale	87
18	Lime	105
37	Shale	142
33	Lime	175
64	Shale	239
2	Lime	241
39	Shale	280
6	Lime	286
29	Shale	315
11	Lime	326
16	Shale	342
30	Lime	372
9	Shale	381
4	Lime	385
44	Shale	429
14	Lime	443
32	Shale	475
17	Lime	492
9	Shale	501
14	Lime	515
30	Shale	545
4	Lime	549
2	Shale	551
3	Lime	554
4	Shale	558
10	Lime	568
10	Shale	578
2	Lime	580
3	Shale	583
3	Lime	586
3	Shale	589
4	Shale	649
10	Lime	659
10	Shale	669

Sec. 8, Twp. 16, Rng. 20 | Pg. 2

Fr. Co., Kansas

345 FSL 2595 FEL

API # 15-059-27060

HUGHES DRILLING REPORT

SURFACE CASING

Well No. I-5 Size

Farm McMillen Feet

Circulated ____ sx cement

PERMANENT CSG.

Size 2 7/8 8rd EUE (New)

Feet 794' of pipe Baffle at 765.60 Float shoe on Bottom

T. D. at Completion 808

OPERATOR Hughes Drilling

Contractor HUGHES DRILLING CO.

DATE	DRILLED FROM	DRILLED TO	REMARKS -- TYPE WORK -- BILLING REF.	PIPE TALLY
	Surf	572	Lime	(29) 22.5-651.5
	572	616	Shale	(30) 22.5-674.0
w-Shale	616	630	Sand (Showing oil)	(31) 22.5-696.5
	630	639	Shale	(32) 22.5-719.0
	639	649	Lime	(33) 22.5-741.5
	649	651	Shale	(34) 22.5-764.0
	651	662	Lime	(35) 22.5-786.5
	662	663	Shale	
	663	669	Lime	
	669	674	Shale (Slate 671-674)	
	674	680	Lime (Bleeding oil 669-671)	
H	680	695	Shale	
1 Squirrel	680	695	Oil Sand (remarks, Sq 3)	
	695	723	Shale	
	723	724	Lime	
	724	732	Shale (Lime 731.5-732)	
	732	733	Lime (gray sdy)	
2 Squirrel	733	742	Oil Sand	
762'	742	808	Shale	
10/15/15		TD		

STRATA THICKNESS	FORMATION DRILLED	T.D.
5	Lime	674
6	Shale	680
1 Sq. 15	Oil Sand	695
28	Shale	723
1	Lime	724
8	Shale	732
1	Lime	733
2 Sq. 9	Oil Sand	742
66	Shale	808
		T.D.

10-15-15

Set 794' of 2 7/8 8rd EUE (New)

Baffle at 765.60 Flantshoe on Bottom

used 3 centralizers

HUGHES DRILLING CO.

Wellsville, Kansas 66092

Pg. 3

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

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

CORE TIME

LEASE [illegible]

FORMATION #1 [illegible]

DATE: 1 day 1st

(RBM [illegible])

FEET FROM	TO	TIME	MINUTES	REMARKS
680	681	Sand very lamin. w/shale (Some Bleed)		680-682
681	682			
682	683	Solid Sand (Good Bleed)		682-684
683	684			
684	685	Sand slightly lamin w/shale (Bleed)		
685	686	Solid Sand (Good Bleed)		685-690
686	687			
687	688			
688	689			
689	690			
690	691	Sand very lamin. w/shale		690-695 (Some Bleed)
691	692			
692	693			
693	694			
694	695			
695	696	Shale		
696	697			
697	698			
698	699			Best Perf Zone 682-689 coal

HUGHES DRILLING CO.

Pg. 4

Wellsville, Kansas 66092

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

CORE TIME

LEASE [redacted]
FORMATION 24 2 Squirrel
DATE: 10/24/15

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

(RPM [redacted])

	FEET FROM	TO	TIME	MINUTES	REMARKS
1	732	733	Gray Sdy Lime		
2	733	734	Solid Sand (good Bleed) 733-735		
3	734	735			
4	735	736			
5	736	737			
6	737	738			
7	738	739	Sand lamin w/shale (Bleeding)		
8	739	740	Sand very lamin w/shale (Bleeding)		
9	740	741			
10	741	742	Shale		
11	742	743			
12	743	744			

Best Perf Zone
733 - 735 acw

CONSOLIDATED
Oil Well Services, LLC

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

Invoice #886108 4554/4453

TICKET NUMBER 49838
LOCATION Ottawa KS
FOREMAN Casey Kennedy

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/15/15	3425	N. McMillan #I-5	SE2	16	20	DG

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

TRUCK #	DRIVER	TRUCK #	DRIVER
729	Casken	Safety Meeting	
4167	Kei Car		
558	Arl McD		

JOB TYPE: longstring | HOLE SIZE: 5 7/8" | HOLE DEPTH: 808' | CASING SIZE & WEIGHT: 2 7/8" EUE
CASING DEPTH: 794' | DRILL PIPE: | TUBING: battle - 765' | OTHER:
SLURRY WEIGHT: | SLURRY VOL: | WATER gal/sk: | CEMENT LEFT in CASING: 29'
DISPLACEMENT: 4.43bbls | DISPLACEMENT PSI: | MIX PSI: | RATE: 4 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 100# Gel followed by 5 bbls fresh water, mixed & pumped 113 sks PozBlend IA cement w/ 2% gel & 1/4# Flaseal per sk, cement to surface, flushed pump clean, pumped 2½" rubber plug to baffle w/ 4.43 bbls fresh water, pressured to 800 PSI, well held pressure for 30 min MIT, released pressure, shut in casing.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE[illegible]0450	1	PUMP CHARGE	1500.00	
CE0002	1.5 mi	MILEAGE	107.25	
CE0711	min	ton mileage	1000.00	
		trucks	22167.25	
		-46%	1042.94	
		subtotal		1224.31
CC5840	113 sks	PozBlend IA	15.25.50	
CC5965	290 #	Gel	87.00	
CC6075	28 #	Flaseal	56.00	
CP81760	1	2½" rubber plug	45.00	
		materials	1713.50	
		-46%	788.21	
		subtotal		925.29
		7.5%		69.39
		SALES TAX		4.00
		ESTIMATED TOTAL		2223.68 4117.83

Ravin 3737

AUTHORIZTION Dal R. Hughes 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 form.

$ 2219.00