Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1220624

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 #:

7/3/2014	7/7/2014	7/9/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-059-26633-00-00
Spot Description:
SE - NW - SW - SE Sec. 2 Twp. 16 S. R. 20 ☑ East ☐ West
750 Feet from ☐ North / ☑ South Line of Section
2246 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-3
Field Name:
Producing Formation: Squirrel
Elevation: Ground: 964 Kelly Bushing: 0
Total Vertical Depth: 755 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: 30 w/ 9 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: 08/28/2014
☑ **Confidential Release Date:** 08/27/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 08/29/2014

[redacted]

1220624

Operator Name: Hughes Drilling Co, a General Partnership Lease Name: North McMillen Well #: I-3

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	30	Portland	9	50/50 POZ
Completion	5.6250	2.8750	8	743.7	Portland	91	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	681-691	2" DML RTG	10

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

Date of First, Resumed Production, SWD or ENHR. 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 I-3
Doc ID	1220624

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	30	Portland	9	50/50 POZ
Completion	5.6250	2.8750	8	743.7	Portland	91	50/50 POZ

Sec. 2, Twp. 16, Rng. 20
Fr. Co., Kansas
750 FSL 2246 FEL
API # 15-059-26633

HUGHES DRILLING REPORT

Well No. #I-3
Farm N. McMillen

SURFACE CASING
Size 7"
Feet 30'
Circulated 9 sx cement

PERMANENT CSG.
Size 2 3/8rd EUE New
Feet 743.70 of pipe
Baffle at 712.79 from bottom
Float shoe on bottom 755'
T. D. at Completion

OPERATOR Hughes Drilling
Contractor HUGHES DRILLING CO.

DATE	DRILLED FROM	DRILLED TO	REMARKS – TYPE WORK – BILLING REF.
7/3/14	0	3	Soil
30'	3	26	Clay
7/7/14	26	41	Shale
5 5/8	41	64	Lime
TD 4	64	70	Shale (Slate 69-70
351	70	80	Lime
	80	86	Shale
	86	106	Lime (Sandy)
	106	144	Gray Sand
	144	175	Lime
	175	238	Shale (Sdy Lime 187-188)
	238	260	Lime
	260	279	Shale (BRKG 276-279)
	279	285	Lime
	285	312	Shale
	312	323	Lime
	323	345	Shale (Lime Break 329-330
30'	345	370	Lime
	370	378	Shale (Slate 377-378)
2d	378	402	Lime
	402	406	Shale (Slate 405-406)
	406	409	Lime
	409	412	Shale
"Hertha"	412	418	Lime
	418	573	Shale (BRKG 421-424) (BRKG 569-571)
	573	576	Gray Sand (Bleeding 573-576)
	576	588	Shale

PIPE TALLY		
1	21.5	21.5
2	22.5	44.0
3	22.5	66.5
4	22.5	89.0
5	22.5	111.5
6	22.5	134.0
7	22.5	156.5
8	22.5	179.0
9	22.5	201.5
10	22.5	224.0
11	22.5	246.5
12	22.5	269.0
13	22.5	291.5
14	22.5	314
15	22.5	336.5
16	22.5	359.0
17	22.5	381.5
18	22.5	404.0
19	22.5	426.5
20	22.5	449.0
21	22.5	471.5
22	22.5	494.0
23	22.5	516.5
24	22.5	539.0
25	22.5	561.5
26	22.5	584.0
27	22.5	606.5

STRATA THICKNESS	FORMATION DRILLED	T.D.
3	Soil	3
23	Clay	26
15	Shale	41
23	Lime	64
6	Shale	70
10	Lime	80
6	Shale	86
20	Lime	106
38	Gr Sand	144
31	Lime	175
63	Shale	238
22	Lime	260
19	Shale	279
6	Lime	285
27	Shale	312
11	Lime	323
22	Shale	345
30' 25	Lime	370
8	Shale	378
20' 24	Lime	402
4	Shale	406
3	Lime	409
3	Shale	412
"Hertha" 6	Lime	418
155	Shale	573
3	Gr. Sand	576
12	Shale	588
6	Lime	594
9	Shale	603
4	Lime	607
9	Shale	616
8	Lime	624
13	Shale	637
3	Lime	640
4	Shale	644
11	Lime	655
12	Shale	667
3	Lime	670
	Shale	678
1/2 Sq.	Oil Sand	697
	Shale	710

PS.

HUGHES DRILLING CO.

Wellsville, Kansas 66092

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

CORE TIME

LEASE N. McMillen #I-3

FORMATION #1 squirrel

DATE: 7-7-14

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

~~Core~~ Chip Sample

FEET FROM	TO	TIME	MINUTES	REMARKS
678	679	Solid Sand (Bleeding)		
679	680			
680	681		680 - 684	
681	682	Solid Sand (ex= Bleed)		
682	683			
683	684			
684	685	Sand very lamin w/shale (Bleeding)		
685	686	Sand lamin w/shale (Bleeding)		
686	687	Solid Sand (ex= Bleed) 686-688		
687	688	~~Sand slightly lamin w/shale (Bleeding)~~		
688	689			
689	690	Sand slightly lamin w/shale (Bleeding)		
690	691			
691	692			
692	693			
693	694	Sand very lamin w/shale (some Bleed)		
694	695			
695	696			
696	697			Best Perf Zone
697	698			681 - 691 ecu

PS-4

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. McMillen #I-3

FORMATION #2 Squirrel

DATE: 7-7-14

chip Sample

FEET FROM	TO	TIME	MINUTES	REMARKS
729	730	Sandy Lime		
730	731			
731	732	Solid Ft. Brown Sand (Oil Trace)		
732	733			
733	734			
734	735	Solid Sand (Bleeding)		
735	736			
736	737	Sand Lamin. w/ Shale (Bleeding)		
737	738	Sand very Lamin. w/ Shale (Some Bleed)		
738	739			
		Shale		(No Good)
				cc'd

CONSOLIDATED
Oil Well Services, LLC

269705

TICKET NUMBER 47457
LOCATION Ottawa
FOREMAN Alan Mader

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
7-9-14	3425	N. McMillen #I-3	SE 2	16	20	FR

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

TRUCK #	DRIVER	TRUCK #	DRIVER
730	Alan M	Safety	Meet
368	Arl McD		
510	Dus Web		

JOB TYPE long string | HOLE SIZE 5 5/8 | HOLE DEPTH 755 | CASING SIZE & WEIGHT 2 7/8
CASING DEPTH 743.7 | DRILL PIPE | TUBING | OTHER bf 718.4
SLURRY WEIGHT | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING yes
DISPLACEMENT 4.17 | DISPLACEMENT PSI 800 | MIX PSI 200 | RATE 4 bpm

REMARKS: Held meeting. Established rate. Mixed & pumped 100# gel followed by 91 sk 50/50 cement plus 1/2# Pheno seal and 2% gel per sack. Circulated cement. Flushed pump. Pumped plug to baffle. Well held 800 PSI for 30 minute MIT. Set float.

Hughes Drilling & Water.

Alan Mader

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT		UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368		1085.00
5406	15	MILEAGE	368		63.00
5402	743.7	casing footage	368		—
5407	min	ton miles	510		368.00
1124	91	50/50 Cement		1046.50	
1118B	253	gel		55.66	
1107A	46#	Pheno seal		62.10	
		Material sub		1164.26	
		less 30%		- 349.28	
		Material total			814.98
4402	1	2 1/2 plug			29.50
				280.08	
				SALES TAX	64.61
				ESTIMATED TOTAL	2425.09

Ravin 3737

AUTHORIZTION _____ 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