



KANSAS CORPORATION COMMISSION 1099871  
OIL & GAS CONSERVATION DIVISION

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 # 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     SLOW  
 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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

<u>8/29/2012</u>	<u>8/30/2012</u>	<u>8/31/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-059-26198-00-00

Spot Description: \_\_\_\_\_  
NE SE NW NE Sec. 11 Twp. 16 S. R. 20  East  West  
4480 Feet from  North /  South Line of Section  
1520 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Franklin

Lease Name: South McMillen Well #: I-4

Field Name: Leloup

Producing Formation: Squirrel

Elevation: Ground: 983 Kelly Bushing: 0

Total Depth: 827 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 43 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: 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Gamsol Date: 11/08/2012



1099871

Operator Name: Hughes Drilling Co, a General Partnership Lease Name: South McMillen Well #: I-4  
 Sec. 11 Twp. 16 S. R. 20  East  West County: Franklin

**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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  GammaRay/Neutron/CCL	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum GammaRay
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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	43	Portland	13	50/50 POZ
Completion	5.6250	2.8750	8	817	Portland	120	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	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	771.0-780.0	2" DML RTG	9

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR.		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# HUGHES DRILLING CO.

Pg 3

Wellsville, Kansas 66092

Roger 913-889-2235  
Darrel 913-889-4027

Ron 913-889-4635  
Clay 913-889-4383

CORE TIME # T-4  
LEASE S. McMillen  
FORMATION #1 squirrel  
DATE: 8/30/12

APPX chip sample

FROM	FEET TO	TIME	MINUTES	REMARKS
714	715	}		sand very lamin w/shale (Some Bleeding 714-717) (Bleeding 717-719)
715	716			
716	717			
717	718			
718	719	-		solid sand (Good Bleed)
720	721	}		sand lamin w/shale (bleeding)
721	722			
722	723	-		sand very lamin w/shale (Bleed)
723	724	}		sand lamin w/shale (some bleed)
724	725			
725	726	}		solid sand (Some Bleed) This sand looks black with some gra
726	727			
727	728	-		sand very lamin w/shale little (bleed) <sup>black</sup> <sub>grat</sub>
729	730	}		sand slightly lamin w/shale (black sand) (some bleed)
730	731			
731	732	}		sd & shale (Possibly Pent 719-728 ccl)
732	733			
733	734			
734	735			
735	736			

# HUGHES DRILLING CO.

194

Wellsville, Kansas 66092

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

CORE TIME

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

LEASE South McMillen #1-4

FORMATION #2 squirrel

DATE: 8/30/12

CCPH chip sample

FROM	FEET TO	TIME	MINUTES	REMARKS
770	771	-		Sand very lamina. w/shale (some bleed)
771	772	-		Sand lamina, w/shale (bleeding)
772	773			} solid sand (Good bleed)
773	774			
774	775			
775	776			
776	777			} solid sand (Blackish color) (bleeding)
777	778			
778	779	-		Sand lamina w/shale (bleeding) (BK)
779	780			} sand very lamina, w/shale (bleeding 779-780) (some bleed 780-781)
780	781			
781	782			} shale  (Best Perf Zone 771-780 CCPH)
782	783			
783	784			
784	785			



**CONSOLIDATED**  
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720  
820-431-9210 or 800-467-8676

TICKET NUMBER 37508

LOCATION Chanute, KS

FOREMAN Casey Kennedy

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE <u>8/21/12</u>	CUSTOMER # <u>3425</u>	WELL NAME & NUMBER <u>S. McMillan # I-4</u>	SECTION <u>NE 11</u>	TOWNSHIP <u>16</u>	RANGE <u>20</u>	COUNTY <u>FR</u>
CUSTOMER <u>Hughes Drilling</u>			TRUCK # <u>481</u>	DRIVER <u>Casten</u>	TRUCK # <u>CK</u>	DRIVER
MAILING ADDRESS <u>122 Main</u>			<u>6066</u>	<u>Kei Car</u>	<u>KC</u>	
CITY <u>Wellsville</u>	STATE <u>KS</u>	ZIP CODE <u>66092</u>	<u>503</u>	<u>Dan Det</u>	<u>DP</u>	

JOB TYPE long string HOLE SIZE 5 7/8" HOLE DEPTH 827' CASING SIZE & WEIGHT 2 7/8" EUE  
 CASING DEPTH 817' DRILL PIPE \_\_\_\_\_ TUBING pin - 810' OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT IN CASING \_\_\_\_\_  
 DISPLACEMENT 4.71 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4.5 bpm

REMARKS: held safety meeting, established circulation, mixed + pumped 100 # Premium Gcl followed by 10 bbls fresh water, mixed + pumped 120 sks 50/50 Premium cement w/ 2% gel + 1/4 # Floseal per sk, cement to surface, flushed pump clear, pumped 3/2" rubber plug to pin w/ 4.71 bbls fresh water, pressured to 800 PSI, well held pressure for 30 min MIT, shut in casing.

*[Handwritten signature]*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1030.00
5406	15 mi	MILEAGE		160.00
5402	817'	casing footage		
5407	minimum	ton mileage		350.00
124	120 sks	50/50 Premium cement		1314.00
118B	302 #	Premium Gcl		63.42
107	30 #	Floseal		70.50
402	1	2 1/2" rubber plug		28.00
			7.8%	SALES TAX
				ESTIMATED TOTAL
				115.12
				3031.04

**SCANNED**

h 3757

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge 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, Twp. 16, Rng. 20  
 Fr. Co., Kansas  
 4480 FSL 1520 FEL  
 API # 15-059-26198

# HUGHES DRILLING REPORT

Well No. **74**  
 Farn: **McMillen**

SURFACE CASING  
 Size: **7"**  
 Feet: **43.05**  
 Circulated **13** sx cement

PERMANENT CSG.  
 Size: .....  
 Feet: .....  
 T. D. at Completion **827'**  
 Contractor **HUGHES DRILLING CO.**

OPERATOR **Hughes Drilling**

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
8/29/12	0	3	Soil	21.5-21.5
43'	3	42	Clay	22.5-44.0
8/30/12	42	63	Shale	22.5-66.5
5 7/8 Pipe	63	90	Lime	22.5-89.0
	90	99	Shale	22.5-111.5
	99	108	Lime	22.5-134.0
	108	115	Shale	22.5-156.5
	115	130	Lime	22.5-179.0
	130	144	Shale (Red Bed 136-138)	22.5-201.5
	144	159	Gray sand	22.5-224.0
	159	166	Shale	22.5-246.5
	166	194	Lime	22.5-269.0
	194	199	Shale	22.5-291.5
	199	211	Gray sand	22.5-314.0
	211	268	Shale	22.5-336.5
	268	290	Lime	22.5-359.0
	290	305	Shale (Broken 296-301)	22.5-381.5
	305	313	Lime	22.5-404.0
	313	337	Shale	22.5-426.5
	337	347	Lime	22.5-449.0
	347	374	Shale (Broken 357-359)	22.5-471.5
30'	374	397	Lime	22.5-494.0
	397	406	Shale (Slate 404-405)	22.5-516.5
20'	406	431	Lime	22.5-539.0
	431	435	Shale (Slate 438-434)	22.5-561.5
	435	439	Lime	22.5-584.0
	439	441	Shale	22.5-606.5

STRATA THICKNESS	FORMATION DRILLED	T.D.
3	Soil	3
39	Clay	42
21	Shale	63
27	Lime	90
9	Shale	99
9	Lime	108
7	Shale	115
15	Lime	130
14	Shale	144
10	Gr. Sand	150
12	Shale	166
28	Lime	194
5	Shale	199
12	Gr. Sand	211
57	Shale	268
22	Lime	290
15	Shale	305
8	Lime	313
24	Shale	337
10	Lime	347
27	Shale	374
30'	23 Lime	397
9	Shale	406
20'	25 Lime	431
4	Shale	435
4	Lime	439
3	Shale	441
11'	6 Lime	447
118	Shale	565
4	Sdy Lime	569
40	Shale	609
1	Gr. Sand	610
11	Shale	621
9	Lime	630
10	Shale	640
1	Lime	647
7	Shale	651
10	Lime	661
12	Shale	673
3	Lime	676
10	Shale	686

Sec. 11, Twp. 16, Rng. 20 (P52)  
 Ft. Co., Kansas  
 4480 FSL 1520 FEL  
 API # 15-039-26198

# HUGHES DRILLING REPORT

Well No. I-4 SURFACE CASING Size..... Size.....  
 Farm S. McMiller Feet..... Feet.....  
 Circulated \_\_\_\_\_ sx cement

OPERATOR Hughes Drilling T. D. at Completion 827'  
 Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
5	Lime	691
10	Shale	701
6	Lime	707
7	Shale	714
#1 39, 17	Sand	731
39	Shale	776
#2 54, 11	Sand	781
46	Shale	827
		TD

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
"Hertha"	461	447	Lime	(28) 22.5-639.0
	447	565	Shale (Broken 450-454)	(29) 22.5-651.5
	565	569	Sdy Lime	(30) 22.5-674.0
	569	609	Shale (Broken 599-600) Broken 600-609	
	609	610	Sand (laminated w/ shale - oil trace)	
	610	621	Shale	(31) 22.5-696.5
	621	630	Lime	(32) 22.5-719.0
	630	640	Shale	(33) 22.5-741.5
	640	644	Lime	(34) 22.5-764.0
	644	651	Shale (slate 644-645)	(35) 22.5-786.5
	651	661	Lime	(36) 22.5-809.0
	661	673	Shale	
	673	676	Lime (Brown)	
	676	686	Shale (slate 676-677) (Broken 682-686)	
	686	691	Lime	
	691	701	Shale	
	701	707	Lime (oil show)	
	707	714	Shale	
#1 Aquina	714	731	Sand (Remarks pg 3)	
	731	770	Shale (Sdy 731-736) (Lime Wx 768)	
#2 Aquina	770	781	Sand (Remarks pg 4)	
	781	827	Shale	
			827 TD	

8/30/12 - Set 817' of 2 7/8" 8rd EUE pipe  
 BOIT AT 810'  
 used 3 centralizers