1099885

KANSAS CORPORATION COMMISSION
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:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [ ] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [ ] Gas
- [ ] D&A
- [x] 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 #:

9/6/2012	9/10/2012	9/11/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-059-26210-00-00
Spot Description:
NE SW SW SE Sec. 2 Twp. 16 S. R. 20 [x] East [ ] West
370 Feet from [ ] North / [x] South Line of Section
2246 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [ ] NW [x] SE [ ] SW
County: Franklin
Lease Name: North Mcmillen Well #: I-1
Field Name: Leloup
Producing Formation: Squirrel
Elevation: Ground: 958 Kelly Bushing: 0
Total Depth: 740 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 20 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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:
- [x] Wireline Log Received
- [ ] Geologist Report Received
- [x] UIC Distribution

ALT [ ] I [x] II [ ] III Approved by: Deanna Garrison Date: 11/08/2012

Side Two

1099885

Operator Name: Hughes Drilling Co, a General Partnership Lease Name: North Mcmillen Well #: I-1

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

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☑ Yes ☐ No

Electric Log Run ☑ Yes ☐ No

Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

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	24	Portland	8	50/50 POZ
Completion	5.6250	2.8750	8	722	Portland	108	50/50 poz

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
	-			
	-			

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	674.0-684.0	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:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 39657
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
9/11/12	3425	N. McMillen #I-1	SE 2	16	20	FR

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

TRUCK #	DRIVER	TRUCK #	DRIVER
481	Casken	CK	
368	Arl McD	ARM	
510	Set Tuc	ST	

JOB TYPE: longstring | HOLE SIZE: 5 5/8" | HOLE DEPTH: 740' | CASING SIZE & WEIGHT: 2 7/8"
CASING DEPTH: 722' | DRILL PIPE: | TUBING: pin - 713' | OTHER:
SLURRY WEIGHT: | SLURRY VOL: | WATER gal/sk: | CEMENT LEFT In CASING: 9'
DISPLACEMENT: 4.15 bbl | DISPLACEMENT PSI: | MIX PSI: | RATE: [redacted] 4 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 100 # Premium Gel followed by 10 bbls fresh water, mixed & pumped 108 sks 50/50 Pozmix cement w/ 2% gel per sk, cement to surface, flushed pump clean, pumped 2 1/2" rubber plug to pin, pressured to 800 PSI, well held pressured for 30 min MIT, shut in casing.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1030.00
5406	15 mi	MILEAGE		100.00
5402	722'	casing footage		—
5407	minimum	ton mileage		350.00
[redacted]				
1124	108 sks	50/50 Pozmix cement		1182.60
1118B	281 #	Premium Gel		59.01
4402	1	2 1/2" rubber plug		28.00
		7.8%	SALES TAX	99.02
Ravin 3737			ESTIMATED TOTAL	2808.63

AUTHORIZTION: No Co Rep on location 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.

252891

Sec. 2 Twp. 16 Rng. 20
FR Co., Kansas
370 FSL 2246 FEL
API # 15-059-26210

HUGHES DRILLING REPORT

SURFACE CASING
Well No. E-1 Size 7"
Farm N. McMillan Feet 24.45
Circulated 8 sx cement

PERMANENT CSG.
Size 2 7/8 8rd EUE
Feet 722' of pipe
Bott at 713'

T. D. at Completion 740'

OPERATOR Hughes Drilling Co. #5682
Contractor HUGHES DRILLING CO.

DATE	DRILLED FROM	DRILLED TO	REMARKS — TYPE WORK — BILLING REF.
9/6/12	0	2	Soil
24'	2	23	Clay
	23	39	Shale
9/10/12	39	44	Lime
5 3/8"	44	51	Sand
PDC	51	64	Lime
	64	71	Shale (Dark)
	71	81	Lime
	81	87	Shale
	87	106	Lime
	106	140	Shale
	140	171	Lime
	171	179	Shale
	179	185	Grey Sand
	185	236	Shale
	236	262	Lime
	262	278	Shale
	278	284	Lime
	284	311	Shale
	311	322	Lime
	322	344	Shale (Broken 325-330)
3'	344	370	Lime
	370	376	Shale (Slate 375-376
24'	376	400	Lime
	400	404	Shale (Slate 403-404)
	404	407	Lime
	407	410	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 - 314.0
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.
2	Soil	2
21	Clay	23
16	Shale	39
5	Lime	44
7	Sand	51
13	Lime	64
7	Shale	71
10	Lime	81
6	Shale	87
19	Lime	106
34	Shale	140
31	Lime	171
8	Shale	179
6	Gr. Sand	185
51	Shale	236
26	Lime	262
16	Shale	278
6	Lime	284
27	Shale	311
11	Lime	322
22	Shale	344
26	Lime	370
6	Shale	376
24	Lime	400
4	Shale	404
3	Lime	407
3	Shale	410
6	Lime	416
113	Shale	529
4	Gr. Sand	533
31	Shale	564
3	Lime	567
5	Shale	572
4	Sand	576
9	Shale	585
8	Lime	593
9	Shale	602
5	Lime	607
6	Shale	613
8	Lime	621
13	Shale	634

Sec. 2 . Twp. 16 . Rng. 20 | PS.
Fr. Co., Kansas
370 FSL 2246 FEL
API # 15-059-26210

HUGHES DRILLING REPORT

SURFACE CASING
Well No. I-1 ..... Size .....
Farm M. McMillen Feet .....
Circulated ____ sx cement

PERMANENT CSG.
Size 2 7/8 8rd EUE
Feet 722' of 2 7/8" pipe
Bolt at 713'
T. D. at Completion 740'
OPERATOR Hughes Drilling Co. #5682
Contractor HUGHES DRILLING CO.

DATE	DRILLED FROM	DRILLED TO	REMARKS – TYPE WORK – BILLING REF.	PIPE TALLY
"Hurtha"	410	416	Lime	(28) 22.5-629.5
	416	529	Shale (Broken 419-424)	(29) 22.5-651.5
	529	533	Gray Sand	(30) 22.5-674.5
	533	564	Shale	(31) 22.5-696.5
	564	567	Lime	(32) 22.5-719.5
	567	572	Shale	
	572	576	Sand (Good Bleeding oil)	
	576	585	Shale	
	585	593	Lime	
	593	602	Shale	
	602	607	Lime (Broken)	
	607	613	Shale	
	613	621	Lime	
	621	634	Shale	
	634	637	Lime (Brown)	
	637	643	Shale (Slate 641-642)	
	643	651	Lime	
	651	661	Shale	
	661	667	Lime (Soft 661-663 Bleeding oil)	
	667	672	Shale	
#1 Squirrel	672	692	oil Sand	
	692	715	Shale	
	715	716	Lime	
	716	723	Shale	
	723	724	Lime	
	724	725	Sdy Lime (Gray)	
#2 Sq.	725	735	Lt. Brown Sand (No show) (Solid 725-731)	
	735	740	Shale	
		TD.		

STRATA THICKNESS	FORMATION DRILLED	T.D.
3	Lime	637
6	Shale	643
8	Lime	651
10	Shale	661
6	Lime	667
5	Shale	672
#1 Squirrel 20	oil Sand	692
23	Shale	715
1	Lime	716
7	Shale	723
1	Lime	724
	Sdy Lime	725
#2 Sq. 10	Lt. Br Sand	735
5	Shale	740
		T.D.

7/11/12 - Set 722.40' of 2 7/8" 8rd EU
Used 3 centralizers
Bolt at 713'

HUGHES DRILLING CO.

(Pg. 3

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-1

FORMATION #1 Squirrel

DATE: 9/10/12

ITEM Chip Sample

FEET FROM	TO	TIME	MINUTES	REMARKS
672	673	Sand very lamin. w/shale (Some Bleed)		
673	674			
674	675	- Sand slightly lamin w/shale (Bleeding)		
675	676	Solid Sand (Bleeding)		
676	677			
677	678			
678	679			
679	680	- Sand very lamin. w/shale (Bleeding)		
680	681	Solid Sand (Bleeding)		
681	682			
682	683	- Sand slightly lamin. w/shale (Bleeding)		
683	684	Sand lamin w/shale (Bleeding)		
684	685			
685	686			
686	687	Sand very lamin. w/shale (Bleeding)		
687	688			
688	689	Shale with a few streaks of Sand (Some Bleeding)		
689	690			
690	691			
691	692			
692	693	Shale		
693	694			

(Best Test Zone
674 - 684
CC H