KOLAR Document ID: 1411097

Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
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 #:

5/11/2018 Spud Date or Recompletion Date
5/16/2018 Date Reached TD
5/16/2018 Completion Date or Recompletion Date

API No.: 15-091-24495-00-00
Spot Description:
SW - SE - NE - SW Sec. 36 Twp. 14 S. R. 21 ☑ East ☐ West
1410 Feet from ☐ North / ☑ South Line of Section
3280 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: Johnson
Lease Name: MCKAUGHAN Well #: 11
Field Name:
Producing Formation: Bartlesville
Elevation: Ground: 1007 Kelly Bushing: 0
Total Vertical Depth: 940 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 20 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: 0 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:
☐ **Confidential Release Date:**
☐ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☐ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ **I** ☑ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 09/12/2018

Operator Name: Hughes Drilling Co, a General Partnership Lease Name: MCKAUGHAN Well #: 11

Sec. 36 Twp. 14 S. R. 21 ☑ East ☐ West County: Johnson

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 *(Attach Additional Sheets)*	☐ Yes	☑ No	☐ Log	Formation (Top), Depth and Datum ☐ Sample
Samples Sent to Geological Survey	☐ Yes	☑ No	Name: NA	Top: NA Datum: NA
Cores Taken	☐ Yes	☑ No		
Electric Log Run	☑ Yes	☐ No		
Geologist Report / Mud Logs	☐ Yes	☑ No		

List All E. Logs Run:

GammaRayNeutronCCL

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	22	Common	5	50/50 POZ
Production	5.875	2.875	6	925	Common	104	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: 7/1/2018	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:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
		Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	873	879

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)*
	873	879			

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	MCKAUGHAN 11
Doc ID	1411097

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	22	Common	5	50/50 POZ
Production	5.875	2.875	6	925	Common	104	50/50 POZ

HUGHES DRILLING REPORT

Jo. Co., Kansas
1410 FSL 3280 FEL
API # 15-091-24495
Sec 36 TWP. 14 RGE(E) 21

Well No. 11
Farm McKaughan

SURFACE CASING
Size 21.70
Feet 7" (new)
Circulated 5 sx cement

PERMANENT CSG. (used)
Size 2" 8rd EUG
Feet 925' Float shoe on Bottom

OPERATOR Hughes Drilling

T. D. at Completion 940
Contractor HUGHES DRILLING CO.

DATE		DRILLED FROM	DRILLED TO	REMARKS -- TYPE WORK -- BILLING REF.	PIPE TALLY
5-1-18		0	3	Soil	(1) 21.5-21.5
21'	HB 5 pad	3	14	Clay	(2) 22.5-44.0
5-8		14	84	Shale	(3) 22.5-66.5
5-15-18		84	77	Lime	(4) 22.5-89.0
		77	84	Shale (Slate 80-81)	(5) 22.5-111.5
		84	93	Lime	(6) 22.5-134.0
		93	97	Shale	(7) 22.5-156.5
		97	120	Lime	(8) 22.5-179.0
		120	135	Shale	(9) 22.5-201.5
		135	140	Gray Sand	(10) 22.5-224.0
		140	142	Shale	(11) 22.5-246.5
		142	164	Lime	(12) 22.5-269.0
		164	166	Gray Sand	(13) 22.5-291.5
		166	194	Shale (Sandy 172-176)	(14) 22.5-314.0
		194	207	Lime	(15) 22.5-336.5
		207	234	Shale	(16) 22.5-359.0
		234	240	Lime	(17) 22.5-381.5
		240	246	Shale	(18) 22.5-404.0
		246	259	Lime	(19) 22.5-426.5
		259	276	Shale	(20) 22.5-449.0
		276	285	Lime	(21) 22.5-471.5
		285	291	Shale	(22) 22.5-494.0
		291	297	Lime	(23) 22.5-516.5
		297	328	Shale	(24) 22.5-539.0
		328	329	Lime	(25) 22.5-561.5
		328	339	Shale	(26) 22.5-584.0
	30'	339	363	Lime	(27) 22.5-606.5

STRATA THICKNESS	FORMATION DRILLED	T.D.
3	Soil	3
11	Clay	14
70	Shale	84
23	Lime	77
7	Shale	84
9	Lime	93
4	Shale	97
23	Lime	120
15	Shale	135
5	Gr. Sand	140
2	Shale	142
22	Lime	164
2	Gr. Sand	166
26	Shale	194
13	Lime	207
27	Shale	234
6	Lime	240
6	Shale	246
13	Lime	259
17	Shale	276
9	Lime	285
6	Shale	291
6	Lime	297
31	Shale	328
1	Lime	329
10	Shale	339
30' 24	Lime	363
8	Shale	371
20' 23	Lime	394
3	Shale	397
4	Lime	401
5	Shale	406
"Northern" 6	Lime	412
30	Shale	442
3	Gr. Sand	445
140	Shale	585
4	Lime	589
5	Shale	594
1	Lime	595
9	Shale	604
6	Lime	610

Driller - Eric Schulz.
Tooldresser - Ben Baker

HUGHES DRILLING REPORT

Jo Co., Kansas (pg 2)
1410 FSL 3280 FEL
API # 15-091-24495
Sec. 36 TWP. 14 RNG 21

SURFACE CASING
Well No. 11 Size
Farm McKaughan Feet
Circulated ____ sx cement

PERMANENT CSG.
Size 2 7/8 8rd EUE (used)
Feet 925' Flat shoe on Bottom

T. D. at Completion 940
OPERATOR Hughes Drilling
Contractor HUGHES DRILLING CO.

DATE	DRILLED FROM	DRILLED TO	REMARKS – TYPE WORK – BILLING REF.	PIPE TALLY
	363	371	Shale (Slate 370-371)	(28) 225-629.0
20'	371	394	Lime	(29) 225-651.5
	394	397	Shale (Slate 396-397)	(30) 225-674.0
	397	401	Lime	(31) 225-696.5
	401	406	Shale	(32) 225-719.0
"Hertha"	406	412	Lime	(33) 225-741.5
Bit Trip 425'	412	442	Shale (Broken 416-420)	(34) 225-764.0
~~Started 5/3/18~~ 3 1/4	442	445	Gray Sand	(35) 225-786.5
	445	585	Shale (Slate 546-563) (Lime Break 570-571)	
583'	585	589	Lime	(36) 225-809.0
5/16/18	589	594	Shale	(37) 225-831.5
	594	595	Lime	(38) 225-854.0
	595	604	Shale	(39) 225-876.5
	604	610	Lime	(40) 225-899.0
	610	626	Shale	(41) 225-921.5
	626	630	Lime (Brown)	
	630	644	Shale	
	644	649	Lime	
	649	672	Shale	
	672	675	Lime (Broken)	
	675	725	Shale	
	725	727	Lime	
	727	747	Shale (Lime 735-736)	
	747	749	(Sand (Brown)	
	749	774	Shale	
	774	776	Lime	
	776	788	Shale (Lime Break 784)	

STRATA THICKNESS	FORMATION DRILLED	T.D.
16	Shale	626
4	Lime	630
14	Shale	644
5	Lime	649
23	Shale	672
3	Lime	675
50	Shale	725
2	Lime	727
20	Shale	747
2	Br. Sand	749
25	Shale	774
2	Lime	776
12	Shale	788
1	Red Bed	789
26	Shale	815
4	Lime	819
35	Shale	858
1	Lime	859
14	Shale	873
6	Oil Sand (B-ville)	879
(61)	Shale	940 T.D

HUGHES DRILLING REPORT

Johnson Co., Kansas (P23)

1410 FSL 3280 FEL

API # 15-091-24495

Sec 36 TWP. 14 RGE 21

SURFACE CASING

Well No. 11

Farm McKaughan

Size

Feet

Circulated ____ sx cement

PERMANENT CSG.

Size

Feet

T. D. at Completion 940

OPERATOR Hughes Drilling Co.

Contractor HUGHES DRILLING CO.

DATE		DRILLED FROM	DRILLED TO	REMARKS – TYPE WORK – BILLING REF.	PIPE TALLY
		788	789	Red Bed	
		789	815	Shale	
		815	819	Lime (Broken)	
		819	858	Shale	
		858	859	Lime	
		859	873	Shale (Red Bed 862-865)	
"Bartlesville"		873	879	Oil Sand (remarks pg. 4)	
		879	884	Shale (very Sandy)	
		884	940	Shale (Lime 891') (Red Bed 928-932	
			T.D.		

STRATA THICKNESS	FORMATION DRILLED	T.D.

5-16-18 Set 925' of 2 7/8" 8rd EUE (used)
3 centralizers and Floatshoe on Bottom

Jo Co., Kansas (Pg. 4)

_____ FSL _____ FEL

API # _____

HUGHES DRILLING REPORT

Well No. # 11 SURFACE CASING Size..... Feet..... Circulated ____ sx cement

Farm Mckaughan PERMANENT CSG. Size..... Feet.....

OPERATOR .....

T. D. at Completion .....

Contractor HUGHES DRILLING CO.

DATE		DRILLED FROM	DRILLED TO	REMARKS – TYPE WORK – BILLING REF.	PIPE TALLY
				Mckaughan #11 5-16-18	
				chip Sample	
	(1)	873	874	3' sand lamin. w/shale (Bleeding)	
	(2)	874	875		
	(3)	875	876	} solid Sand (Bleeding)	
	(4)	876	877		
	(5)	877	878		
	(6)	878	879		
	(7)	879	880	} shale	
	(8)	880	881		
	(9)	881	882		

Best perf zone
873' 879
cut 3per ft

STRATA THICKNESS	FORMATION DRILLED	T.D.

873-875 - Lamin.

875-879 - solid

10682 / 10572

TICKET NUMBER 54016
LOCATION Ottawa
FOREMAN Alan Mader

INVOICE #813166

QES
PRESSURE PUMPING LLC
PO Box 864, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-16-18	5425	McKaughan 11	SW 36	14	21	Jo

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

TRUCK #	DRIVER	TRUCK #	DRIVER
730	Alan M	Safety	Meet
467	Kris C		
503	Kris D		

JOB TYPE: long string | HOLE SIZE: 5 5/8 | HOLE DEPTH: 940 | CASING SIZE & WEIGHT: 2 7/8
CASING DEPTH: 925 | DRILL PIPE: | TUBING: | OTHER:
SLURRY WEIGHT: | SLURRY VOL: | WATER gal/sk: | CEMENT LEFT in CASING: yes
DISPLACEMENT: | DISPLACEMENT PSI: 800 | MIX PSI: 200 | RATE: 4 bpm

REMARKS: Held meeting. Established rate. Mixed & pumped 100# gel followed by 5K Poz Blend F-A plus 2% gel & 1/4# flo seal per sack. Circulated cement to surface. Flushed pump. Pumped plug to casing TD. Well held 800 PSI. Set float.

Hughes water

Adam Mader

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	
CE9002	25	MILEAGE	1.75	
CE0711	min	ton miles 503	160.00	
		sub	2338.75	
		less 40%	-935.50	1403.25
CC5840	104	Poz Blend F-A	14.00	1456.00
CC5865	275#	gel	.50	82.50
CC6075	26	Flo seal	2.00	52.00
EP8176	1	2 1/2 plug	45.00	45.00
		sub	1583.50	
		less 40%	-633.40	950.12
		7.975%	SALES TAX	75.77
			ESTIMATED TOTAL	2429.12

Ravin 3737

AUTHORIZTION [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 account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.