

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

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 Company
Address 1: 122 N. Main
Address 2: _____
City: Wellsville State: Ks Zip: 66092 + 8522
Contact Person: Carl (Clay) Hughes
Phone: (913) 963-9127
CONTRACTOR: License # 5682
Name: Hughes Drilling Company
Wellsite Geologist: none
Purchaser: High Sierra

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

<u>5/2/11</u>	<u>5/4/11</u>	<u>6/7/11</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 059-25,598 -0000

Spot Description: _____
NE SW NE SW Sec. 33 Twp. 15 S. R. 20 East West
1,815 Feet from North / South Line of Section
3,465 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Franklin

Lease Name: Lutter Well #: 12

Field Name: Norwood

Producing Formation: Squirrel

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: 775' Plug Back Total Depth: 751.05'

Amount of Surface Pipe Set and Cemented at: 24' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: 751.05'

feet depth to: surface w/ 105 sx cmt.

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Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Carl C. Hughes
Title: Partner Date: 6/24/11

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: Dlg Date: 7/8/11

Operator Name: Hughes Drilling Company Lease Name: Lutter Well #: 12
 Sec. 33 Twp. 15 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 (Attach Additional Sheets)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top Datum
Cores Taken	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Hertha	435'-442'
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1st Squirrel	705'-720'
Electric Log Submitted Electronically (If no, Submit Copy)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
List All E. Logs Run: Gamma Ray/Neutron			

CASING RECORD <input 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	11"	6 1/4"	15#	24'	portland	7	
Production	5 5/8"	2 7/8"	7#	755.05'	50/50 poz	105	2% gel

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 (Amount and Kind of Material Used)	Depth
2	41 perms-709'-719'-2" DML RTG	fracture-5,000#	709-719

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. 6/8/11	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. 2	Gas Mcf trace	Water Bbls. 1	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>709-719</u>
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CONSOLIDATED
Oil Well Services, LLC

API# 15-059-25598-00.00

TICKET NUMBER 31867
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
5-4-11	3425	Watter 12	9w 33	15	20	FR
CUSTOMER Hughes Drilling						
MAILING ADDRESS 122 Main						
CITY Wellsville		STATE KS	ZIP CODE 66092			
			TRUCK #	DRIVER	TRUCK #	DRIVER
			516	Alan M	Safety	Merdy
			368	Ken H	KH	
			510	Derek M	DM	

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 775 CASING SIZE & WEIGHT 2 7/8
CASING DEPTH 755 DRILL PIPE _____ TUBING _____ OTHER pin 751
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING yes
DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 bpm

REMARKS: Held crew meeting. Established rate. Mixed & pumped 100# gel to flush hole followed by 105 sk 50/50 poz, plus 290 gel. Circulated cement. Flushed pump. Pumped plug to pin. Well held 800 PSI. Closed valves.

Hughes Drilling & Water

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		975.00
5406	15	MILEAGE		60.00
5402	755	casing footage		—
5407	min	Tonniles		330.00
111813	276#	gel	RECEIVED	35.20
1124	105 sk	50/50 poz	JUN 30 2011	1097.25
4002	1	2 1/2 pin		28.00
				KCC WICHITA
				W0# 241218
				2.9
				SALES TAX ESTIMATED TOTAL
				92.08
				2637.53

Ravin 3737

[Signature]

AUTHORIZATION _____ 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.

Sec. 35, Twp. 15, Rng. 20
 Ft. Co., Kansas
 1815 FSL 3465 FEL
 API # 15-059-25598

HUGHES DRILLING REPORT

Well No. 12 Size 6 1/4" PERMANENT CSG. Size 2 7/8" 8nd EUC
 Farm Letter Feet 24.0 Feet 755.05 (Bolt at 751.05)
 Circulated 7 ex cement
 OPERATOR Hughes Drilling T. D. at Completion 775
 Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Soil	2
17	Clay	19
46	Shale	65
7	Lime	72
2	Shale	74
19	Lime	92
7	Shale	99
10	Lime	109
4	Shale	113
17	Lime	130
36	Shale	166
17	Lime	183
78	Shale	261
21	Lime	282
20	Shale	302
6	Lime	308
31	Shale	339
10	Lime	349
20	Shale	369
30'	24 Lime	393
	8 Shale	401
20'	25 Lime	426
	4 Shale	430
	3 Lime	433
	2 Shale	435
Further	7 Lime	442
	119 Shale	561
	3 Sand	564
	39 Shale	603
	3 Lime	606
	8 Shale	614
	10 Lime	624
	6 Shale	630
	4 Lime	634
	10 Shale	644
	11 Lime	655
	10 Shale	665
	3 Lime	668
	9 Shale	677
	3 Lime	680
	11 Shale	691

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
5-2-11	0	2	Soil	(1) 21.5-21.5
	2	19	Clay	(2) 22.5-44.0
24'	19	65	Shale	(3) 22.5-66.5
5 1/2" PDC	65	72	Lime	(4) 22.5-89.0
	72	74	Shale	(5) 22.5-111.5
	74	92	Lime	(6) 22.5-134.0
	92	99	Shale (Slate 98-99)	(7) 22.5-156.5
	99	109	Lime	(8) 22.5-179.0
	109	113	Shale	(9) 22.5-201.5
	113	130	Lime	(10) 22.5-224.0
	130	166	Shale	(11) 22.5-246.5
	166	183	Lime	(12) 22.5-269.0
	183	261	Shale	(13) 22.5-291.5
	261	282	Lime	(14) 22.5-314.0
	282	302	Shale (CRK Bed 296-297)	(15) 22.5-336.5
	302	308	Lime	(16) 22.5-359.0
	308	339	Shale	(17) 22.5-381.5
	339	349	Lime	(18) 22.5-404.0
	349	369	Shale (CRK 353-355)	(19) 22.5-426.5
30'	369	393	Lime (CRK 377-380)	(20) 22.5-449.0
	393	401	Shale (Slate 396-397)	(21) 22.5-471.5
20'	401	426	Lime	(22) 22.5-494.0
	426	430	Shale (Slate 427-428)	(23) 22.5-516.5
	430	433	Lime	(24) 22.5-539.0
	433	435	Shale	(25) 22.5-561.5
Further	435	442	Lime	(26) 22.5-584.0
	442	561	Shale (CRK 445-448) (Sandy 477-512)	(27) 22.5-606.5

68 Broken Lime 523-526

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5/2/11 - set 24.0' of 6 1/4" surface pipe KCC WICHITA
 circulated 7 ex cement

194

Sec. 33, Twp. 15, Rng. 20

FR Co., Kansas

1815 FSL 3465 FEL

API# 15-059-25898

HUGHES DRILLING REPORT

Well No. 12
 Farm Watter
 SURFACE CASING
 Size _____
 Feet _____
 Circulated _____ ex cement

PERMANENT CSG.
 Size 2 7/8" 8rd EUE
 Feet 755.05 (Bolt at 751.05)

OPERATOR Hughes Drilling

T. D. at Completion 775
 Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
9	Lime	700
5	Shale	705
15	Sand	720
43	shale	763
	Lt Brown sand	764
11	Shale	775
		T.D.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
	561	564	SAND (No show slight odor)	(28) 22.5-629.0
	564	603	Shale (sandy 564-571 slight oil show)	(29) 22.5-651.5
	603	606	Lime (No show slight odor)	(30) 22.5-674.0
	606	614	Shale	(31) 22.5-696.5
	614	624	LIME	(32) 22.5-719.0
	624	630	Shale (slate 625-626)	(33) 22.5-741.5
	630	634	LIME	(34) 22.5-764.0
	634	644	Shale (slate 634-635)	
	644	655	LIME	
	655	665	Shale	
	665	668	Lime (Brown)	
	668	677	Shale (slate 670-671) (Bleeding oil)	
	677	680	LIME	
	680	691	Shale (slate 690-691)	
	691	700	LIME (Bleeding oil)	
	700	705	Shale	
	705	720	sand (Remarks pg 3)	
706	720	763	Shale (sandy 751-752 no show)	
5/4/11	763	764	Lt Brown sand (no show)	
	764	775	Shale	
			T.D.	
5/4/11			set 755.05' of 2 7/8" 8rd EUE Used 3 centralizers Bolt at 751.05'	

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KCC WICHITA

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 Letter # 12
FORMATION # 1 SQUIRREL
DATE: 5-3-11

(RPM 3" PDC Bit)

FROM	FEET TO	TIME	MINUTES	REMARKS
705	706	Chip sample	—	705-709
①	706	707	1:32:00 - 1:32:45	:45 } sdy shale w/a few STN
②	707	708	1:33:45	:45 } (little bleed) of sand
③	708	709	1:34:45	:45 }
④	709	710	1:35:30	:45 } 709-710.5 slightly laminar,
⑤	710	711	1:36:15	:45 } (bleeding)
⑥	711	712	1:37:00	:45 } solid sand 710.5-712
⑦	712	713	1:38:30	:45 } (Exc. bleed)
⑧	713	714	1:40:00	:45 } sdy lime (no oil) 712-713.
⑨	714	715	1:40:45	:45 }
⑩	715	716	1:41:30	:45 } 713.5-718.5
⑪	716	717	1:42:15	:45 } solid sand
⑫	717	718	1:48:00 - 1:48:45	:45 } (Exc. bleed)
⑬	718	719	1:49:30	:45 }
⑭	719	720	1:50:30	:45 } sand slightly laminar w/shal.
⑮	720	721	1:51:30	:45 } shows some water (bleeding
⑯	721	722	1:52:45	:45 } 718.5-721
⑰	722	723	1:53:45	:45 }
⑱	723	724	1:55:00	:45 } RECEIVED
⑲	724	725	1:56:00	:45 } shale JUN 30 2011
⑳	725	726	1:57:00	:45 } KCC WICHITA

(Best Perf Zone)
709-719 cch