

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>4/14/11</u>	<u>4/19/11</u>	<u>6/7/11</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 059-25,556 -0000
Spot Description: _____
NW NW SE SW Sec. 33 Twp. 15 S. R. 20 East West
1,155 Feet from North / South Line of Section
3,795 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Franklin
Lease Name: Lutter Well #: 10
Field Name: Norwood
Producing Formation: Squirrel
Elevation: Ground: _____ Kelly Bushing: _____
Total Depth: 773' Plug Back Total Depth: 747.45'
Amount of Surface Pipe Set and Cemented at: 23' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 747.45'
feet depth to: surface w/ 110 sx cmt.

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 Confidentially 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 #: 10
 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 <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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Gamma Ray/Neutron	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Hertha</td> <td>437'-445'</td> <td></td> </tr> <tr> <td>1st Squirrel</td> <td>708'-714'</td> <td></td> </tr> </table>	Name	Top	Datum	Hertha	437'-445'		1st Squirrel	708'-714'	
Name	Top	Datum								
Hertha	437'-445'									
1st Squirrel	708'-714'									

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#	23'	portland	7	
Production	5 5/8"	2 7/8"	7#	751.45'	50/50 poz	110	2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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
2	25 perms-708'-1-714'-2" DML RTG	fracture-3,500#	708-714

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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 <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: 708-714 _____
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CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 31878
LOCATION Ottawa, KS
FOREMAN Casey Kennedy

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4/19/11	3425	Letter #10	SW 33	15	20	FR
CUSTOMER Hughes Drilling						
MAILING ADDRESS 122 Main						
CITY Wellsville		STATE KS	ZIP CODE 66092			
			TRUCK #	DRIVER	TRUCK #	DRIVER
			389	Cap Ken	ck	
			495	Nor Bec	#B	
			503	Tim War	TAW	

JOB TYPE logstring HOLE SIZE 5 5/8" HOLE DEPTH 773' CASING SIZE & WEIGHT 2 3/8" OGE
CASING DEPTH 751' DRILL PIPE _____ TUBING _____ OTHER pin at 747'
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 2 1/2" rubber plug
DISPLACEMENT 4.34 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 5.5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 100 # Premium Gel followed by 110 bbls fresh water, mixed & pumped 110 sks 50/50 Pozmix cement w/ 270 Premium Gel per sk, cement to surface, flushed pump clean, displaced 2 1/2" rubber plug to pin w/ 4.34 bbls fresh water, pressured to 700 PSI, shut in casing.

(Handwritten signature)

Customer supplied H₂O

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE cement pump		975.00
5406	15 miles	MILEAGE pump truck		60.00
5402	751'	casing footage		n/c
5407	minimum	ton mileage		330.00
1124	110 sks	50/50 Pozmix cement	10.45	1149.50
1118B	285 #	Premium Gel	.20	57.00
4402	1	2 1/2" rubber plug		28.00
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				WOT# 240 862
				7.87
				SALES TAX ESTIMATED TOTAL
				96.29
				2695.79

Rev'n 3737

AUTHORIZATION CK 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. 33, Twp. 15, Rng. 20
 FB Co., Kansas
 1155 FSL 3795 FEL
 API # 15091-25556

HUGHES DRILLING REPORT

SURFACE CASING
 Well No. #10 Size 6 1/4
 Farm Letter Feet 23
 Circulated 7 sx cement

PERMANENT CSG.
 Size 2 7/8" 2nd EUE
 Feet 751.45 Bolt at 747.45

OPERATOR Hughes Drilling

T. D. at Completion 773
 Contractor HUGHES DRILLING CO.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
4-4-11	0	2	Soil	① 21.5 - 21.5
23	2	19	Clay	② 22.5 - 44.0
	19	66	Shale	③ 22.5 - 66.5
4-18-11	66	72	Lime	④ 22.5 - 89.0
5 1/2 PD	72	75	shale	⑤ 22.5 - 111.5
	75	93	Lime	⑥ 22.5 - 134.0
	93	100	Shale (Slate 99-100)	⑦ 22.5 - 156.5
	109	111	Lime	⑧ 22.5 - 179.0
	111	114	Shale	⑨ 22.5 - 201.5
	114	133	Lime	⑩ 22.5 - 224.0
	133	161	Shale	⑪ 22.5 - 246.5
	161	183	Lime	⑫ 22.5 - 269.0
	183	262	Shale (Sandy 183-188)	⑬ 22.5 - 291.5
	262	283	Lime	⑭ 22.5 - 304.0
	283	308	Shale (Red Bud 289-293)	⑮ 22.5 - 336.5
	308	318	Lime	⑯ 22.5 - 359.0
	318	339	Shale	⑰ 22.5 - 381.5
	339	349	Lime	⑱ 22.5 - 404.0
	349	369	Shale (Broken 350-354)	⑲ 22.5 - 426.5
30'	369	394	Lime (Broken 380-382)	⑳ 22.5 - 449.0
	394	401	Shale (Slate 399-400)	㉑ 22.5 - 471.5
20'	401	427	Lime	㉒ 22.5 - 494.0
	427	431	Shale (Slate 430-431)	㉓ 22.5 - 516.5
	431	435	Lime	㉔ 22.5 - 539.0
	435	437	Shale	㉕ 22.5 - 561.5
"Hertha"	437	445	Lime	㉖ 22.5 - 584.0
	445	556	Shale (Broken 448-450) (Sandy Shale 480-512)	㉗ 22.5 - 606.5

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	soil	2
17	Clay	19
47	Shale	66
6	Lime	72
3	Shale	75
18	Lime	93
7	Shale	100
11	Lime	111
3	Shale	114
19	Lime	133
28	Shale	161
22	Lime	183
79	Shale	262
21	Lime	283
22	Shale	308
13	Lime	318
21	Shale	339
10	Lime	349
20	Shale	369
30'	25' Lime	394
	7' Shale	401
20'	26' Lime	427
	4' Shale	431
	4' Lime	435
	2' Shale	437
	8' Lime	445
	11' Shale	556
	4' Sand	560
	9' Shale	570
	2' Sand	572
	28' Shale	600
	2' Lime	602
	9' Sand	606
	6' Shale	612
	10' Lime	622
	20' Shale	642
	10' Lime	652
	11' Shale	663
	3' Lime	666
	8' Shale	674
	8' Lime	682

4/14/11 - set 23' of 6 1/4" surface pipe
 circulated 7 sx cement

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Sec. 33, Twp. 15, Rng. 20 (Pg. 1)
 Fr Co., Kansas
 HJS FSL 3795 FEL
 API # 15-059-25556

HUGHES DRILLING REPORT

SURFACE CASING
 Well No. 10 Size.....
 Farm Lutter Feet.....
 Circulated _____ sx cement

PERMANENT CSG.
 Size 2 7/8" 2nd EUE
 Feet 751.45 (BOLT AT 747.45)

OPERATOR Hughes Drilling

T. D. at Completion 773
 Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
11	Shale	693
7	Lime	700
8	Shale	708
41	oil sand	714
41	Shale	755
2	sand	757
16	shale	773
		T.D.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
	556	561	sand (limey no trace)	(28) 225-624.0
	561	570	shale	(29) 225-651.5
	570	572	sand (some bleeding good edge)	(30) 225-674.0
	572	600	shale (Broken 593-597)	(31) 225-696.5
	600	602	lime	(32) 225-719.0
	602	606	sand (some bleeding)	(33) 225-741.5
	606	612	shale	(34) 225-764.0
	612	622	lime	
	622	642	shale (Broken 629-632)	
	642	652	lime	
	652	663	shale	
	663	666	lime (brown)	
	666	674	shale (slate 666-667)	
	674	682	lime	
	682	693	shale (slate 692-693)	
	693	700	lime	
	700	708	shale	
4/19/11	708	714	oil sand (core times ps 3)	
710"	714	755	shale (lime 748-749)	
	755	757	lt brown sand	
	757	773	shale	
			T.D.	
4/19/11 - set 751.45' of 2 7/8" 2nd EUE pipe				
BOLT AT 747.55				
used 3 centralizers				

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[Handwritten signatures and notes]

HUGHES DRILLING CO.

Wellsville, Kansas 66092

PS-3

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

CORE TIME
LEASE Lutter #10
FORMATION #1 squirrel
DATE: 4-18-11

Ron 913-883-4656
Clay 913-883-4383

~~3"~~ 3" PDC Bit

FROM	FEET TO	TIME	MINUTES	REMARKS	
708	709	chip sample	-	708-713 sand slightly lamina w/shale (bleeding)	
709	710	chip sample	-		
710	711	4:50:00-4:51:00	1:00		
711	712	4:52:15	1:15	sand very lamina w/shale (some bleed)	
712	713	4:53:30	1:15		
713	714	4:55:15	1:45		
714	715	4:57:45	2:30		
715	716	5:00:15	2:30	shale	
716	717	5:03:00	2:45		
717	718	5:06:45	3:45		Stop APP. Joint
718	719	5:11:00-5:14:45	3:45		
719	720	5:19:30	4:45		
720	721	5:23:30	4:00		
721	722	5:27:00	3:00		
722	723	5:31:00	4:00		
723	724	5:34:30	3:30		
724	725	Stop			
725	726			(Best Perf Zone) 708-714	
726	727				
727	728				
728	729				
729	730				

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