

ORIGINAL

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 Company
Address 1: 122 N. Main
Address 2: _____
City: Wellsville State: Ks Zip: 66092 + 8522
Contact Person: Carl (Clay) Hughes
Phone: (785) 883-2235
CONTRACTOR: License # 5682
Name: Hughes Drilling Company
Wellsite Geologist: none
Purchaser: High Sierra
Designate Type of Completion:

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- 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 #: _____

8/31/11 9/7/11 9/21/11
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 059-25,698 • 00 • 00

Spot Description: _____
SE SE NW SW Sec. 33 Twp. 15 S. R. 20 East West
1,485 Feet from North / South Line of Section
4,125 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Franklin
Lease Name: Lutter Well #: 15
Field Name: Norwood

Producing Formation: Squirrel
Elevation: Ground: _____ Kelly Bushing: _____
Total Depth: 795 Plug Back Total Depth: 776
Amount of Surface Pipe Set and Cemented at: 24.4 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 776
feet depth to: surface w/ 117 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: 12/20/11

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: 12/20/11

Operator Name: Hughes Drilling Company Lease Name: Lutter Well #: 15

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.

<p>Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i></p> <p>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Cores Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i></p> <p>List All E. Logs Run: Gamma Ray/Neutron</p>	<p><input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample</p> <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>442-449</td> <td></td> </tr> <tr> <td>#1 Squirrel</td> <td>726-744</td> <td></td> </tr> </table>	Name	Top	Datum	Hertha	442-449		#1 Squirrel	726-744	
Name	Top	Datum								
Hertha	442-449									
#1 Squirrel	726-744									

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#	24.4	portland	8	
Production	5 5/8"	2 7/8"	7#	780	50/50 poz	117	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 <i>(Amount and Kind of Material Used)</i>	Depth
4	41 perms- 727'-737' -2" DML RTG	fracture-3,500#	727-737
		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> RECEIVED DEC 14 2011 KCC WICHITA </div>	

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. 9/22/11	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 Bbbs. 2	Gas Mcf trace	Water Bbbs. 1	Gas-Oil Ratio	Gravity 24

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 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: <u>727-737</u>
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CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 32810
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
9-7-11	3425	hutter 15	SW 34	15	2D	JK
CUSTOMER Hughes Drilling			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS 122 Main			516 Alan M Safety Meet			
CITY STATE ZIP CODE Wellsville KS 66092			493 Casey B OK			
			503 Derek M DM			

JOB TYPE log string HOLE SIZE 5 7/8 HOLE DEPTH 793 CASING SIZE & WEIGHT 2 3/8
CASING DEPTH 780 DRILL PIPE _____ TUBING _____ OTHER 776 pin
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT 4 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Held crew meeting. Established site. Mixed & pumped 120# gel followed by 117 sk 50/50 poz plus 20# gel. Circulated cement. Flushed pump. Pumped plug to pin at 776, well held 800 PSI. Closed valve.

Hughes Drilling & water

Alan Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1 1	PUMP CHARGE		975.00
5406	15	MILEAGE		60.00
5402	780	casing footage		
5407	min	ten miles		330.00
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1124	117 sk	50/50 poz		1222.65
1183	297#	gel	DEC 14 2011	59.40
4402	1	2 1/2 plug	KCC WICHITA	28.00
				SALES TAX 102.18
				ESTIMATED TOTAL 2777.23

244186

Ravin 3737

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

HUGHES DRILLING REPORT

Well No. 15
Farm Lutter
SURFACE CASING
Size 6 1/4
Feet 291.40
Circulated 3 sx cement

PERMANENT CSG
Size 2 7/8 8rd EVE
Feet 780 pipe T.D
Bolt at 706 716

API # 15-059-25198-00-1

OPERATOR Hughes Drilling Co

T. D. at Completion 795
Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	soil	2
18	clay	20
50	shale	68
6	lime	74
3	snale	77
18	limc	95
7	shale	102
10	lime	112
3	shale	115
20	lime	135
23	shale	158
7	Gr. sand	165
7	shale	172
15	lime	187
79	shale	266
20	lime	286
24	shale	310
7	lime	317
24	shale	341
13	lime	354
20	shale	374
23	lime	397
19	shale	407
24	lime	431
4	shale	435
4	lime	439
3	shale	442
7	lime	449
112	shale	561
3	Gr sand	564
40	shale	604
5	lime	609
6	shale	615
9	lime	624
5	shale	629
2	lime	631
13	shale	644
11	lime	655
10	shale	665
3	lime	668
10	shale	678

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
9/31/11	0	2	soil	(1) 21.5-21.5
24'	2	20	clay	(2) 22.5-41.0
9-6-11	20	68	shale	(3) 22.5-66.5
5/8	68	74	lime	(4) 22.5-89.0
PDU	74	77	shale	(5) 22.5-111.5
	77	95	lime	(6) 22.5-134.0
	95	102	shale (slate 101-102)	(7) 22.5-156.5
	102	112	lime	(8) 22.5-179.0
	112	115	shale	(9) 22.5-201.5
	115	135	lime	(10) 22.5-224.0
	135	158	shale	(11) 22.5-246.5
	158	165	gray sand	(12) 22.5-269.0
	165	172	shale	(13) 22.5-291.5
	172	187	lime	(14) 22.5-314.0
	187	266	shale (sandy 140-200)	(15) 22.5-336.5
	266	286	lime	(16) 22.5-359.0
	286	310	shale (red bed 303-304)	(17) 22.5-381.5
	310	317	lime	(18) 22.5-404.0
	317	341	shale	(19) 22.5-426.5
	341	354	lime	(20) 22.5-449.0
	354	374	shale (BRK 357-359)	(21) 22.5-471.5
30'	374	397	lime	(22) 22.5-494.0
	397	407	shale (slate 398-400)	(23) 22.5-516.5
20'	407	431	lime	(24) 22.5-539.0
	431	435	shale (slate 434-435)	(25) 22.5-561.5
	435	439	lime	(26) 22.5-584.0
	439	442	shale	(27) 22.5-606.5

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HUGHES DRILLING REPORT

Well No. 15 SURFACE CASING PERMANENT CSG.
 Farm Witter Size 2 7/8 8rd EUE
 Feet 780 pipe T.D. Bolt at 776
 Circulated sx cement
 T. D. at Completion 795
 OPERATOR Hughes Drilling Co. Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
4	Lime	682
13	Shale	695
9	Lime	703
73	Shale	776
#1 sq. 18	oil sand	744
9	Shale	753
1	Lime	754
41	Shale	795
		T.D.

DATE	DRILLED FROM TO	REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
Feb 11	442 449	Lime	(28) 225-629.0
	449 561	Shale (BRK) 452-455	(29) 225-651.5
	561 564	Gray sand (slight odor)	(30) 225-674.9
	564 604	Shale (BRK) 598-604	(31) 225-696.5
	604 609	Lime	(32) 225-719.0
	609 615	Shale	(33) 225-741.5
	615 624	Lime	(34) 225-764.0
	624 629	Shale	(35) 225-786.5
	629 631	Lime	
	631 644	Shale	
	644 655	Lime	
	655 665	Shale	
	665 668	Lime (Brown)	
	668 678	Shale (slate 674-675)	
	678 682	Lime	
	682 695	Shale	
	695 703	Lime (slight odor)	
	703 726	Shale	
#1 sq.	726 744	oil sand (remarks pg. 3)	
	744 753	Shale	
	753 754	Lime	
	754 795	Shale	
		T.D.	
9/7/11		- SET 780' of 2 7/8" 8rd EUE pipe used 3 centralizers	

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BOLT AT 776'

HUGHES DRILLING CO.

PS 3

Wellsville, Kansas 66092

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

CORE TIME
LEASE Letter #15
FORMATION #1 Squirrel
DATE: 9-6-11

Ron 913-883-4655
Clay 913-883-4383
this sample
from ~~the~~ the ~~the~~ the

FROM	FEET TO	TIME	MINUTES	REMARKS
				Chip Sampled All Sand
1	726	727		sand lamination w/shale (bleeding)
2	727	728		} Solid Sand (exc bleed) 827-831
3	728	729		
4	729	730		
5	730	731		
6	731	732		
7	732	733		} Solid Sand (exc bleed) 832-838
8	733	734		
9	734	735		
10	735	736		
11	736	737		} Solid Sand (Darken colored sand) 838-840 (Oil is a little heavier)
12	737	738		
13	738	739		
14	739	740		} Solid Black & Grey Sand (Heavier Oil)
15	740	741		
16	741	742		
17	742	743		} Shale
18	743	744		
19	744	745		(Best Perf Zone) 727-737 cch
20	745	746		

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