

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

ORIGINAL
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:
 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>6/25/10</u>	<u>6/29/10</u>	<u>11-3-10</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 059-25,494-0000
Spot Description: _____
NE SE NE SW Sec. 33 Twp. 15 S. R. 20 East West
1,815 1806 Feet from North / South Line of Section
2,805 2830 Feet from East / West Line of Section
GPS-KCC-Dlg
Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW
County: Franklin
Lease Name: Lutter Well #: 6
Field Name: Norwood
Producing Formation: Squirrel
Elevation: Ground: _____ Kelly Bushing: _____
Total Depth: 763 Plug Back Total Depth: 750
Amount of Surface Pipe Set and Cemented at: 21.8 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 750
feet depth to: surface w/ 119 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: 12/31/10

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: 1/10/11

Operator Name: Hughes Drilling Company Lease Name: Lutter Well #: 6
 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 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)

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Hertha	435-441	
Squirrel	712-723	

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"	8"	15#	21.8	portland	5	none
Production	5 5/8"	2 7/8"	7#	752	50/50 poz	119	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 (Amount and Kind of Material Used)	Depth
3	31 perms-708'-718'-2" DML RTG	fracture-3,500#	708-718
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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. 11/4/10		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 24	

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. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: 708-718
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Sec. 33, Twp. 15, Rng. 20
 Franklin Co., Kansas
1815 FSL 2805 FEL
 API # 15-059-25494-00-00

HUGHES DRILLING REPORT

Well No. 6 SURFACE CASING PERMANENT CSG.
 Farm Luther Size 8" Size
 Feet 21'80" Feet
 Circulated 5 sx cement

OPERATOR Hughes Drilling Co.

T. D. at Completion T63'
 Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
4	Soil	4
17	Clay	21
43	shale	64
6	Lime	70
2	Shale	72
20	Lime	92
6	Shale	98
10	Lime	108
4	Shale	112
17	Lime	129
36	Shale	165
16	Lime	181
7	Sand	188
72	Shale	260
22	Lime	282
19	Shale	301
7	Lime	308
29	Shale	337
12	Lime	349
19	Shale	368
30'	24 Lime	392
8	Shale	400
20'	25 Lime	425
4	Shale	429
4	Lime	433
2	Shale	435
"Hertha"	6 Lime	441
121	Shale	562
3	Sand	565
38	Shale	603
4	Light Brn Sand	607
10	Shale	617
6	Lime	623
7	Shale	630
5	Lime	635
9	Shale	644
8	Lime	652
1.7	Shale	665
3	Lime	668
6	Shale	674
3	Lime	677

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
1/25/10	0	4	Soil	① 21.5 - 21.5
	4	21	Clay	② 22.5 - 44.0
21'80" Surface	21	64	Shale	③ 22.5 - 66.5
1/28/10	64	70	Lime	④ 22.5 - 89.0
5 3/8 PDC	70	72	Shale	⑤ 22.5 - 111.5
	72	92	Lime	⑥ 22.5 - 134.0
	92	98	Shale (Dark) (Slate: 97-98)	⑦ 22.5 - 156.5
	98	108	Lime	⑧ 22.5 - 179.0
	108	112	Shale	⑨ 22.5 - 201.5
	112	129	Lime (Brk: 125-127)	⑩ 22.5 - 224.0
	129	165	Shale	⑪ 22.5 - 246.5
	165	181	Lime	⑫ 22.5 - 269.0
	181	188	Sand	⑬ 22.5 - 291.5
	188	260	Shale	⑭ 22.5 - 314.0
	260	282	Lime	⑮ 22.5 - 336.5
	282	301	Shale (Red Bed: 297-298)	⑯ 22.5 - 359.0
	301	308	Lime	⑰ 22.5 - 381.5
	308	337	Shale	⑱ 22.5 - 404.0
	337	349	Lime (oil trace)	⑲ 22.5 - 426.5
	349	368	Shale (Braidon = 351-353)	⑳ 22.5 - 449.0
30'	368	392	Lime (Shale: 376-378)	㉑ 22.5 - 471.5
	392	400	Shale (Slate: 397-398)	㉒ 22.5 - 494.0
20'	400	425	Lime	㉓ 22.5 - 516.5
	425	429	Shale (Slate: 428-429)	㉔ 22.5 - 539.0
	429	433	Lime	㉕ 22.5 - 561.5
	433	435	Shale	㉖ 22.5 - 584.0
"Hertha"	435	441	Lime	㉗ 22.5 - 606.5

6/25/10 - set 21.80' of 8" surface pipe
 circulated 5 sx cement

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Drillers: Isaac Burbank
 Clay Hughes KCC WICHITA

HUGHES DRILLING REPORT

FSL _____ FEL _____
 API # 15-059-25494-00-00

SURFACE CASING PERMANENT CSG.

Well No. 6 Size 8"
 Farm Lutter Feet 21.80
 Circulated 5 sx cement

T. D. at Completion 763'
 Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling Co.

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	shale	679
4	lime	683
11	shale	694
6	lime	700
9	shale	709
3	Brk sand	712
3	sol. lime	715
8	Brk sand	723
23	shale	746
1	lime	747
7	shale	754
4	lime	755
3	shale	758
3	Brk sand	761
2	shale	763
	TD	

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
6/28/10	441	562	Shale (Brk: 443-445) (Sand 508-510)	(28) 22.5-629.0
	562	565	Sand (Some oil sand - bleeding)	(29) 22.5-651.5
	565	603	Shale	(30) 22.5-674.0
	603	607	Light Brown sand (bleeding oil) shale	(31) 22.5-696.5
	607	617	Shale	(32) 22.5-719.0
	617	623	Lime	(33) 22.5-741.5
	623	630	shale (slate: 629-630)	(34) 22.5-744.0
	630	635	Lime (Brk: 632-634)	
	635	644	Shale	
	644	652	Lime	
	652	665	Shale	
	665	668	Lime (Brown)	
	668	674	shale (slate 673-674)	
	674	677	lime	
	677	679	shale	
	679	683	Lime (Broken)	
	683	694	Shale	
	694	700	Lime (oil trace)	
	700	709	shale (Lime 705-706)	
	709	712	Brk sand	
	712	715	sol. lime	} core time pg. 3
729	715	723	Brk sand	
729/10	723	746	shale	
	746	747	lime	
	747	754	shale	
	754	755	Lime	
	755	758	shale	

758 761 Brk Sand (Brown no show)
 761 763 shale
 TD

6/29/10 - set 752" of 2 7/8" ENE
 used 3 centralizers
 Bolt at 750'

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HUGHES DRILLING CO.

Wellsville, Kansas 66092

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

CORE TIME
LEASE Lutter #6
FORMATION #1 Squinnet
DATE: 6/28/10

Ron 913-883-4655
Clay 913-883-4383

(RPM) 3" PDC core bit

FROM	FEEET TO	TIME	MINUTES	REMARKS
709	710	chip sample	-	709-712.5
① 710	711	5:40:00 - 5:40:45	:45	} sand very lamin w/shale bleeding
② 711	712	5:41:45	1:00	
③ 712	713	5:43:00	1:15	} 712.5-715.5 sdy lime - gray NO OIL
④ 713	714	5:45:00	2:00	
⑤ 714	715	5:46:45	1:45	} 715.5-717 solid sand (bleeding)
⑥ 715	716	5:47:45	1:00	
⑦ 716	717	5:48:30	:45	} 717-719 (some bleedin)
⑧ 717	718	5:49:45	1:15	
⑨ 718	719	5:50:45	1:00	} sand very lamin w/shale
⑩ 719	720	stop add joint 5:59:00 - 6:00:15	1:15	
⑪ 720	721	6:01:30	1:15	} 719-721 sdy shale
⑫ 721	722	6:02:30	1:00	
⑬ 722	723	6:03:15	:45	} 721-723.5 (some bleed)
⑭ 723	724	6:04:30	1:15	
⑮ 724	725	6:05:30	1:00	} shale 723.5-725 725-725.5 sand lamin w/ gray oil
⑯ 725	726	6:06:30	1:00	
⑰ 726	727	6:07:45	1:15	} shale (lime break 728)
⑱ 727	728	6:09:30	1:45	
⑲ 728	729	6:10:45	1:15	}
20 729	730	6: STOP	-	

(Best Perf Zone
709-719
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CONSOLIDATED
Oil Well Services, LLC

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

TICKET NUMBER 26892

LOCATION Ottawa, KS

FOREMAN Jim Greck

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-27-10	3425	#26 Lutter	SE 1/4 37	15	20	FR
CUSTOMER <u>Hughes Drilling</u>						
MAILING ADDRESS <u>122 Main</u>						
CITY <u>Wellsville</u>		STATE <u>KC</u>	ZIP CODE <u>66092</u>			

TRUCK #	DRIVER	TRUCK #	DRIVER
481	Jim Greck		
164	ARI McD	Acme	
503	Col Per	CHP	

JOB TYPE <u>Longstroke</u>	HOLE SIZE <u>5 7/8"</u>	HOLE DEPTH <u>763'</u>	CASING SIZE & WEIGHT <u>2 1/2 EWB</u>
CASING DEPTH <u>752'</u>	DRILL PIPE	TUBING	OTHER
SLURRY WEIGHT <u>110 748'</u>	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING
DISPLACEMENT	DISPLACEMENT PSI	MIX PSI	RATE

REMARKS: Establish circulation mix and pump 100# Gel to flush hole
Max and pump 119 sk 5 7/8 Por 2% Gel. Flush pump clear of cement
Pump 2 1/2" rubber plug to total depth of casing circulating
Cement to surface. Pressure upto 650" PSI well held, shut well in.

Customer Supply H₂O

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE <u>Cement Pump</u>		<u>900.00</u>
5406	15	MILEAGE <u>Pump TK</u>		<u>53.25</u>
5402	752'	<u>Casing footage</u>		<u>N/C</u>
5407	mi	<u>to a mileage</u>		<u>305.00</u>
		<u>Vac TK Customer Supplied</u>		<u>N/C</u>
1124	119 sk	<u>5 7/8 Por Mix Cement</u>		<u>1136.45</u>
111813	305#	<u>Premium Gel</u>		<u>60.00</u>
41402	1	<u>2 1/2" rubber Plug</u>		<u>28.13</u>
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				<u>JAN 03 2011</u>
				<u>KCC WICHITA</u>
		<u>WO# 235027</u>		
			SALES TAX	<u>82.92</u>
			ESTIMATED	
			TOTAL	<u>2560.62</u>

Revin 3737

AUTHORIZATION Dal R. Hughes 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.