



KANSAS CORPORATION COMMISSION 1090309
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 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 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 #: _____

<u>7/3/2012</u>	<u>7/6/2012</u>	<u>8/10/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-059-25815-00-00

Spot Description: _____

____ NE SW Sec. 33 Twp. 15 S. R. 20 East West
1980 Feet from North / South Line of Section
3300 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Franklin

Lease Name: Lutter Well #: I-4

Field Name: Norwood

Producing Formation: Mississippi

Elevation: Ground: 953 Kelly Bushing: 0

Total Depth: 774 Plug Back Total Depth: _____

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: _____

feet depth to: 24 w/ 7 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 1500 ppm Fluid volume: 80 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

- Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Garrisor Date: 08/21/2012



1090309

Operator Name: Hughes Drilling Co, a General Partnership Lease Name: Lutter Well #: I-4
 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: GammaRay/Neutron/CCL	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum GammaRay
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CASING RECORD <input checked="" 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	9	7	10	24	Portland	7	50/50 POZ
Completion	5.6250	2.8750	8	753	Portland	100	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	-			

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	709.0-717.0	2" DML RTG	8

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumed Production, SWD or ENHR. _____	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. _____ Gas Mcf _____ Water Bbls. _____ Gas-Oil Ratio _____ Gravity _____

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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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HUGHES DRILLING REPORT

PERMANENT CSG.

Well No. I-4 Size 7"
 Farm Lutter Feet 23.85
 Circulated 7 sx cement

Size.....
 Feet.....

T. D. at Completion 774

Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Soil	2
17	clay	19
46	shale	65
6	lime	71
3	shale	74
19	lime	92
7	shale	99
10	lime	109
3	shale	112
20	lime	132
22	shale	154
20	lime	184
77	shale	261
21	lime	282
19	shale	301
7	lime	308
33	shale	341
15	lime	356
14	shale	370
30'	27' lime	394
	7' shale	401
20'	27' lime	425
	5' shale	430
	3' lime	433
	4' shale	437
"Hertha"	6' lime	443
	83' shale	526
	10' Gray sand	536
	25' shale	561
	5' Gray sand	566
	38' shale	604
	3' Gray sand	607
	7' shale	614
	8' lime	622
	25' shale	647
	9' lime	656
	10' shale	666
	2' lime	668
	12' shale	680
	4' lime	684
	12' shale	696

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
7/3/12	0	2	soil	① 215-215
23	2	19	clay	② 225-44.0
7/5/12	19	65	shale	③ 225-66.5
5 1/8 PDC	65	71	lime	④ 225-89.0
	71	74	shale	⑤ 225-111.5
	74	92	lime	⑥ 225-134.0
	92	99	shale (slate 98-99)	⑦ 225-156.5
	99	109	lime	⑧ 225-179.0
	109	112	shale	⑨ 225-201.5
	112	132	lime	⑩ 225-224.0
	132	164	shale (Red bed 135-138)	⑪ 225-246.5
	164	184	lime	⑫ 225-269.0
	184	261	shale (Sandy 186-198)	⑬ 225-291.5
	261	282	lime	⑭ 225-314.0
	282	301	shale (Red bed 288-290)	⑮ 225-336.5
	301	308	lime	⑯ 225-359.0
	308	341	shale (Brk 327-331)	⑰ 225-381.5
	341	356	lime	⑱ 225-404.0
	356	370	shale	⑲ 225-426.5
30'	370	394	lime	⑳ 225-449.0
	394	401	shale (slate 396-397)	㉑ 225-471.5
20'	401	425	lime	㉒ 225-494.0
	425	430	shale (slate 430-431)	㉓ 225-516.5
	430	433	lime	㉔ 225-539.0
	433	437	shale	㉕ 225-561.5
"Hertha"	437	443	lime	㉖ 225-584.0
	443	526	shale (Brk 446-449) (Sandy 484-505)	㉗ 225-606.5

Drillers: Isaac Burbank
 Clay Hughes

HUGHES DRILLING REPORT

Well No. I-4 Surface CASING Size 7"
 Farm Cutter Feet 23.85
 Circulated 7 sx cement

PERMANENT CSG.
 Size 2 7/8" 3rd EUE (new)
 Feet 753'
Bolt at 747

OPERATOR Hughes Drilling

T. D. at Completion 774
 Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
5	Lime	701
7	Shale	708
#159 11	Sand	719
6	Brk sand	725
21	Shale	746
1	Lime	747
10	Shale	757
2	Lime	759
3	Sand	767
7	Shale	774
		T.D.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
	526	536	Gray Sand	(28) 22.5-629.0
	536	561	Shale (sandy 542-546)	(29) 22.5-651.5
	561	566	Gray sand (some bleeding oil)	(30) 22.5-674.0
	566	604	Shale (Brk 594-599)	(31) 22.5-696.5
	604	607	Gray sand	(32) 22.5-719.0
	607	614	Shale	(33) 22.5-741.5
	614	622	Lime	(34) 22.5-769.0
	622	647	Shale (Brk 631-639)	
	647	656	Lime	
	656	666	Shale	
	666	668	Lime (Brown)	
	668	680	Shale (Brk 675-681)	
	680	684	Lime	
	684	696	Shale (Slate 689-690)	
	696	701	Lime (some bleeding oil)	
	701	708	Shale ⁶⁵⁰⁻⁶⁴⁸	
	#1 squirrel 708	719	Sand	
	719	725	Broken sand	(Remarks pg. 3)
	725	746	Shale	
	746	747	LIME	
	747	757	Shale	
	757	759	Lime	
	759	767	Gray & Brown Sand (No show) (Broken w/shale)	
	767	774	Shale	
			T.D.	

[Handwritten signature]
 Jnts

7/6/12 - Set 753' of new 2 7/8" 3rd EUE
 Bolt at 747
 used 3 centralizers

HUGHES DRILLING CO.

P 3rd

Wellsville, Kansas 66092

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

CORE TIME

Ben 913-883-4655
Clay 913-883-4383

LEASE Gutter # 2-4

FORMATION #1 Squirrel

DATE: 7/5/12

(BPT) chip sample

FROM	FEET TO	TIME	MINUTES	REMARKS
708	709			sand very lamin. w/shale (little bleed)
709	710			} 709-711.5 solid sand (exc. bleed)
710	711			
711	712			} sand very lamin. w/shale (some bleed)
712	713			
713	714			} sand lamin. w/shale (bleeding)
714	715			
715	716			} solid sand (exc. bleed)
716	717			
717	718			} sand very lamin. w/shale (bleeding)
718	719			
719	720			} sand very lamin. w/shale (little bleed)
720	721			
721	722			
722	723			
723	724			} Shale (Best PorF zone) 709-717
724	725			
725	726			
726	727			
727	728			



CONSOLIDATED
Oil Well Services, LLC

APP # 15-054-25,315

TICKET NUMBER 37410

LOCATION Ottawa

FOREMAN Alan Mader

PO Box 884, Chanute, KS 66720
820-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-6-12	3425	Lutter I-4	SW 33	15	2D	FR
CUSTOMER <u>Hughes Drilling</u>			TRUCK #			
MAILING ADDRESS <u>122 Main</u>			DRIVER			
CITY <u>Wellsville</u>			TRUCK #			
STATE <u>KS</u>			DRIVER			
ZIP CODE <u>66092</u>			TRUCK #			
			DRIVER			

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 774 CASING SIZE & WEIGHT 2 7/8
 CASING DEPTH 753 DRILL PIPE _____ TUBING _____ OTHER pin 747
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING yes
 DISPLACEMENT 4.4 DISPLACEMENT PSI 800 MIX PSI 200 RATE 4 bpm

REMARKS: Held crew meet. Established rate. Mixed & pumped 100 # gel. Full lined by 100 sk 50/150 cement plus 200 gal. Circulated cement. Flushed pump. Pumped plug to pin Well held 800 PSI for 30 min M.T. Closed valve.

Hughes Rig Water Eric

Alan Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368	1030.00
5406	15	MILEAGE	368	60.00
5402	753'	casing footage	368	—
5407	min	ton miles	510	350.00
1124	100 sk	50/150 cement		1095.00
11813	268 #	gel		66.28
4402	1	2 1/2 plug		28.00
SALES TAX				91.98
ESTIMATED TOTAL				2711.26

Rev'n 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.

251180