

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 Co.
 Address 1: 122 N. Main
 Address 2: _____
 City: Wellsville State: Ks Zip: 66092 + _____
 Contact Person: Carl (Clay) Hughes
 Phone: (785) 883-2235
 CONTRACTOR: License # 5682
 Name: Hughes Drilling Co
 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>8/23/11</u>	<u>8/26/11</u>	<u>11/14/11</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 091-23,534 · 00.00

Spot Description: _____
NE SW NE SE Sec. 36 Twp. 14 S. R. 21 East West
1,815 Feet from North / South Line of Section
730 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Johnson

Lease Name: HF Well #: 2

Field Name: Longanecker-Southeast

Producing Formation: Bartlesville

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: 900 Plug Back Total Depth: 881

Amount of Surface Pipe Set and Cemented at: 23.35 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: 885

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 #: _____

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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: 3/23/12

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: 4/17/12

Operator Name: Hughes Drilling Co. Lease Name: HF Well #: 2
 Sec. 36 Twp. 14 S. R. 21 East West County: Johnson

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 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>380-386</td> <td></td> </tr> <tr> <td>Bartlesville</td> <td>836-844</td> <td></td> </tr> </table>	Name	Top	Datum	Hertha	380-386		Bartlesville	836-844	
Name	Top	Datum								
Hertha	380-386									
Bartlesville	836-844									

CASING RECORD <input type="checkbox"/> New <input checked="" 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"	12	23.35	portland	9	
production	5 5/8"	2 7/8"	7	885	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 (Amount and Kind of Material Used)	Depth
4	29 perfs 837-844 2" DML-RTG	fracture- 4500# sand	837-844

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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. 11/15/11		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 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: 837-844
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Sec. 36, Twp. 14, Rng. 21
30 Co., Kansas
1815 FSL 730 FEL
 API # 15-091-23531-00-00

HUGHES DRILLING REPORT

Well No. 2
 Farm H.F.
 SURFACE CASING
 Size 6 1/4"
 Feet 23.35
 Circulated 9 sx cement

PERMANENT CSG.
 Size 2 7/8" Std EWE
 Feet 885 pipe T.D.
 Bolt at 881

T. D. at Completion 900
 Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Soil	2
19	Clay	21
4	Lime	25
9	Shale	34
17	Lime	51
6	Shale	57
9	Lime	66
6	Shale	72
22	Lime	94
10	Shale	104
14	Ground	118
23	Lime	141
26	Shale	167
11	Lime	178
22	Shale	200
12	Lime	212
10	Shale	222
10	Lime	232
18	Shale	250
9	Lime	259
7	Shale	266
6	Lime	272
42	Shale	314
25	Lime	339
6	Shale	345
23	Lime	368
4	Shale	372
3	Lime	375
5	Shale	380
6	Lime	386
17	Shale	433
2	Ground	435
12	Shale	550
5	Lime	561
4	Shale	565
4	Lime	569
7	Shale	576
4	Lime	580
10	Shale	598
3	Lime	601
9	Shale	611

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
8-23-11	0	2	Soil	(1) 21.5-21.5
23'	2	21	Clay	(2) 22.5-44.0
8-24-11	21	25	Lime	(3) 22.5-66.5
	25	34	Shale	(4) 22.5-89.0
	34	51	Lime	(5) 22.5-111.5
	51	57	Shale (Slate 54-56)	(6) 22.5-134.0
	57	66	Lime	(7) 22.5-156.5
	66	72	Shale	(8) 22.5-179.0
	72	94	Lime	(9) 22.5-201.5
	94	104	Shale	(10) 22.5-224.0
	104	118	Gray Sand	(11) 22.5-246.5
	118	141	Lime	(12) 22.5-269.0
	141	167	Shale	(13) 22.5-291.5
	167	178	Lime	(14) 22.5-314.0
	178	200	Shale	(15) 22.5-336.5
	200	212	Lime	(16) 22.5-359.0
	212	222	Shale	(17) 22.5-381.5
	222	232	Lime	(18) 22.5-404.0
245'	232	250	Shale	(19) 22.5-426.5
8-25-11	250	259	Lime	(20) 22.5-449.0
	259	266	Shale (Slate 260-261)	(21) 22.5-471.5
	266	272	Lime	(22) 22.5-494.0
	272	314	Shale (Lime Break 302-303)	(23) 22.5-516.5
30'	314	339	Lime	(24) 22.5-539.0
	339	345	Shale (Slate 341-343)	(25) 22.5-561.5
20'	345	368	Lime	(26) 22.5-584.0
	368	372	Shale (Slate 369-370)	(27) 22.5-606.5

Drillers: Eric Schultz & Isaac Burbank

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Sec. 36 Twp. 14 Rng. 21 [76]
10 Co., Kansas
1815 FSL 730 FEL
 API # 15-A1-23534-00-00

HUGHES DRILLING REPORT

SURFACE CASING
 Well No. 2 Size.....
 Farm H.F. Feet.....
 Circulated _____ sx cement

PERMANENT CSG.
 Size 2 7/8 Bnd. EUE
 Feet 885 Pipe T.D.
Bolt at 881
 T. D. at Completion 900
 Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling

STRATA THICKNESS	FORMATION DRILLED	T.D.
6	Lime	617
4	Shale	621
17	Red Bed	639
6	Shale	644
2	Lime	646
47	Shale	693
1	Lime	694
10	Shale	704
1	Lime	705
8	Shale	713
1	Br. sand	714
29	Shale	742
2	Lime	744
92	Shale	836
8	oil sand	844
56	Shale	900
		TD

DATE	DRILLED		REMARKS - TYPE WORK - DRILLING REF.	PIPE TALLY
	FROM	TO		
B-2 F-11	372	375	Lime	(8) 22.5 - 629.0
	375	380	Shale	(2) 22.5 - 651.5
"Hertwa"	380	386	Lime	(30) 22.5 - 674.0
	386	433	Shale (BPA) 391-396)	(51) 22.5 - 696.0
	433	435	Gray sand	(36) 22.5 - 719.0
	435	556	Shale	(33) 22.5 - 741.0
	556	561	Lime	(34) 22.5 - 761.0
	561	565	Shale	(55) 22.5 - 786.5
	565	569	Lime	(56) 22.5 - 809.0
	569	576	Shale	(57) 22.5 - 831.5
	576	580	Lime	(32) 22.5 - 854.0
	580	598	Shale	(59) 22.5 - 876.5
	598	601	Lime (Brown)	(10) 22.5 - 899.0
	601	611	Shale (slate 601-602)	
	611	617	Lime (Broken)	
	617	621	Shale	
	621	638	Red Bed	
	638	644	Shale (slate 638-639)	
	644	646	Lime	
	646	693	Shale	
	693	694	Lime	
	694	704	Shale	
	704	705	Lime	
	705	713	Shale	
#2 sand	713	714	Brown sand (slight odor)	
	714	742	Shale	
	742	744	Lime	

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HUGHES DRILLING CO.

Wellsville, Kansas 66092

PG 4

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

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

LEASE H.F. #2 CORE TIME
FORMATION Bartlesville
DATE: 8-25-11

~~Chip Sample~~
Chip Sample

FROM	FEET TO	TIME	MINUTES	REMARKS
		chip sample		
①	836 837			sand very laminar w/slate (Some Bleed)
②	837 838	}		solid sand (Good bleed)
③	838 839			
④	839 840			
⑤	840 841	}		solid sand (Bleeding) (Limey) 840-842
⑥	841 842			
⑦	842 843	}		sand very laminar w/slate some bleed
⑧	843 844			
⑨	844 845	}		slate
⑩	845 846			
⑪				(Best Perf From 837-844 CCH 11/2/11 Midwest Surveys Perfed 837-844 29 Perfs 2" OMB BTG
⑫				
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