

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:  
 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 #: \_\_\_\_\_

10/14/11	10/18/11	11/14/11
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 091-23,535 • 00 • 00

Spot Description: \_\_\_\_\_  
NW SW NE SE Sec. 36 Twp. 14 S. R. 21  East  West  
1,815 Feet from  North /  South Line of Section  
1,120 Feet from  East /  West Line of Section

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

County: Johnson

Lease Name: HF Well #: 3

Field Name: Longanecker Southeast

Producing Formation: Bartlesville

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: 905 Plug Back Total Depth: 884

Amount of Surface Pipe Set and Cemented at: 24.6 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/ 130 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: 3/20/12

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: DG Date: 4/17/12

Operator Name: Hughes Drilling Co. Lease Name: HF Well #: 3  
 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: <b>Gamma Ray / Neutron</b>	<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>381-387</td> <td></td> </tr> <tr> <td>Bartlesville</td> <td>834-842</td> <td></td> </tr> </table>	Name	Top	Datum	Hertha	381-387		Bartlesville	834-842	
Name	Top	Datum								
Hertha	381-387									
Bartlesville	834-842									

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 5/8"	15	24.6	portland	7	
production	5 5/8"	2 7/8"	7	888	50/50 poz	130	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 835-842 2" DML-RTG	fracture- 4500# sand	835-842

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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) _____	<b>PRODUCTION INTERVAL:</b> <u>835-842</u>
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PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

TICKET NUMBER 32974  
LOCATION Ottawa KS  
FOREMAN Fred Madia

**FIELD TICKET & TREATMENT REPORT  
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/18/11	3425	HF #3	36	14	21	JO
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Hughes Drilling			506	FREMAO	Safety Mtg	
MAILING ADDRESS			495	HARBEC	HB	
122 Main St.			503	HEIDET	KD	
CITY	STATE	ZIP CODE				
Wellsville	KS	66092				

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 905' CASING SIZE & WEIGHT 2 7/8 EUE  
 CASING DEPTH 888' DRILL PIPE pin @ TUBING 884 OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/ek \_\_\_\_\_ CEMENT LEFT in CASING 4' + Plug  
 DISPLACEMENT 5.13 BB DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5.13 PM

REMARKS: Establish circulation. Mix + Pump 100# Premium Gel Flush  
Mix + Pump 130 SKS 50/50 for mix cement 2 7/8 gel.  
Cement to surface. Flush pump + lines clean. Displace 2 1/2"  
rubber plug to pin in casing w/ 5.13 BB. Fresh water  
pressure to 800 # PSI. 1' shot in casing.

Customer Supplied Water.

*Fred Madia*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		975.00
5406	0	MILEAGE Truck on lease.		N/C
5402	888	Casing footage		N/C
5407	minimum	Ten Miles		330.00
1124	130 SKS	50/50 for Mix Cement		1358.50
1118B	318*	Premium Gel		6300
4402	1	2 1/2" Rubber Plug		28.00
			7.525%	SALES TAX
				ESTIMATED
				TOTAL
				109.13
				2864.23

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245187

Rev 3757  
AUTHORIZATION Dan R. Huper

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. 36, Twp. 14, Rng. 21  
 Johnson Co., Kansas  
 1815 FSL 1120 FEL  
 API # 15-091-23535-00-00

# HUGHES DRILLING REPORT

Well No. 3  
 Farm HF  
 SURFACE CASING  
 Size 6 5/8  
 Feet 24.60  
 Circulated 7 ex cement

PERMANENT CSG.  
 Size 2 7/8 Red E.V.E  
 Feet pipe TD. 888  
30ft at 884

OPERATOR Hughes Drilling Co.

T. D. at Completion 905  
 Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Soil	2
15	clay	17
9	shale	26
28	lime	54
7	shale	61
9	lime	70
6	shale	76
18	lime	94
3	shale	97
3	Red Bed	100
21	shale	121
22	lime	143
12	Gr. sand	155
13	shale	168
11	lime	179
24	shale	203
11	lime	214
10	shale	224
10	lime	234
16	shale	250
9	lime	259
1	shale	264
12	lime	272
42	shale	314
30'	26 Lime	340
6	shale	346
20'	23 Lime	369
4	shale	373
3	lime	376
5	shale	381
5	lime	387
44	shale	431
4	Gr. sand	435
123	shale	558
6	lime	564
3	shale	567
4	lime	576
6	shale	578
2	lime	580
19	shale	599
3	lime	602

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
11/11	0	2	Soil	121.5-21.5
24'	2	17	clay	222.5-44.0
12/17/11	17	26	Shale	322.5-66.5
55'	26	54	lime	422.5-89.0
PDC	54	61	shale (slate 60-61)	522.5-111.5
	61	70	lime	622.5-134.0
	70	76	shale	722.5-156.5
	76	94	lime	822.5-179.0
	94	97	shale	922.5-201.5
	97	100	Red Bed	1022.5-224.0
	100	121	shale	1122.5-246.5
	121	143	lime	1222.5-269.0
	143	155	Gray sand	1322.5-291.5
	155	168	shale	1422.5-314.0
	168	179	lime	1522.5-336.5
	179	203	shale	1622.5-359.0
	203	214	lime	1722.5-381.5
	214	224	shale	1822.5-404.0
	224	234	lime	1922.5-426.5
	234	250	shale	2022.5-449.0
	250	259	lime	2122.5-471.5
	259	264	shale (slate 260-261)	2222.5-494.0
	264	272	lime	2322.5-516.5
	272	314	shale (303-304)	2422.5-539.0
30'	314	340	lime	2522.5-561.5
	340	346	shale (slate 342-343)	2622.5-584.0
20'	346	369	lime	2722.5-606.5

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# HUGHES DRILLING REPORT

Well No. 3 ..... Size .....  
 Farm H.E. ..... Feet .....  
 Circulated \_\_\_\_\_ sx cement

PERMANENT CSG.  
 Size 2 7/8" 8rd EVE  
 Feet pipe T.D. 888  
 Bolt at 884

T. D. at Completion 905  
 Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling Co.

1815 FSL 1120 FEL  
 API # 15-091-23535-00-00

STRATA THICKNESS	FORMATION DRILLED	T.D.
10	Shale	612
5	Lime	617
3	Shale	620
14	Red Bed	634
6	Shale	640
6	Lime	646
47	Shale	693
1	Lime	694
10	Shale	704
1	Lime	705
9	Shale	714
2	Bk Sand	716
27	Shale	743
2	Lime	745
87	Shale	834
8	oil sand	842
63	shale	905
		712

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
19/17/11	369	373	Shale (Slate 370-371)	(28) 225-629.0
	373	376	Lime	(29) 225-651.5
	376	381	Shale	(30) 225-674.0
"Hughes"	381	387	Lime	(31) 225-696.5
	387	431	Shale (BK 390-395)	(32) 225-719.0
	431	435	Gray sand	(33) 225-741.5
	435	558	Shale (sdy shale 499-501)	(34) 225-764.0
	558	564	Lime	(35) 225-786.5
	564	567	Shale	(36) 225-809.0
	567	571	Lime	(37) 225-831.5
	571	578	Shale	(38) 225-854.0
	578	580	Lime	(39) 225-876.5
	580	599	Shale (BK 581-584)	(40) 225-899.0
	599	602	Lime (Brown)	
	602	612	Shale (Slate-601-603)	
	612	617	Lime	
	617	620	Shale	
	620	634	Red Bed	
	634	640	Shale	
	640	645	Lime (BK 640-643)	
	645	693	Shale (BK 657-658)	
	693	694	Lime	
	694	704	Shale	
	704	705	Lime	
	705	714	Shale	
	714	716	Brown Sand (slight oiled)	
	716	743	Shale	

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1754

# HUGHES DRILLING CO.

Wellsville, Kansas 66092

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

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

LEASE H.F. #3 CORE TIME  
FORMATION Bartlesville  
DATE: 10-17-11

(~~REF~~ Chip Sample)

	FROM	FEET TO	TIME	MINUTES	REMARKS
①	834	835	-		Hard sand (some bleed)
②	835	836	}		solid sand (good bleed)
③	836	837			
④	837	838			
⑤	838	839			
⑥	839	840			
⑦	840	841			
⑧	841	842	}		shale
⑨	842	843			
⑩	843	844			
(Best Perf Zone)					11/2/11
835-842					Midwest Surveys
CCH					Perfed 835-842
					29 PERFS
					2" GML RTG

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