

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 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 #:

8/17/11	8/18/11	9/7/11
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 091-23,532 • 00 • 00

Spot Description:

SE SE SW SE Sec. 36 Twp. 14 S. R. 21 East West

220 Feet from North / South Line of Section

1,540 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: Johnson

Lease Name: Braun Well #: 31

Field Name: Longanecker Southeast

Producing Formation: Bartlesville

Elevation: Ground: Kelly Bushing:

Total Depth: 920 Plug Back Total Depth: 899

Amount of Surface Pipe Set and Cemented at: 27 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: Feet

If Alternate II completion, cement circulated from: 899

feet depth to: surface w/ 108 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: 12/2/11

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: 12/2/11

Operator Name: Hughes Drilling Company Lease Name: Braun Well #: 31
 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 checked="" type="checkbox"/> Yes <input 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>404-410</td> <td></td> </tr> <tr> <td>Bartlesville</td> <td>858-866</td> <td></td> </tr> </table>	Name	Top	Datum	Hertha	404-410		Bartlesville	858-866	
Name	Top	Datum								
Hertha	404-410									
Bartlesville	858-866									

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#	27	portland	8	
Production	5 5/8"	2 7/8"	7#	903	50/50 poz	108	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	22 perms- 859'-866' -2" DML RTG	fracture-3,500#	859-866

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. 9/8/11	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. <u>2</u>	Gas Mcf <u>trace</u>	Water Bbls. <u>1</u>	Gas-Oil Ratio	Gravity <u>24</u>

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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>859-866</u>
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HUGHES DRILLING REPORT

Well No. 31
 Farm Bran
 SURFACE CASING
 Size 6 1/4
 Feet 27
 Circulated 8 ex cement

PERMANENT CSG.
 Size 2 3/8 8rd ELF
 Feet 903 Pipe T.O.
 Bolt at 899
 T. D. at Completion 920
 Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling Co.

Sec 26 Twp. 14 Rng. 21
Johnson Co., Kansas
220 FSL 1540 FEL
 API # 15-091-23532-00-00

DATE		DRILLED		REMARKS - TYPE WORK -- BILLING REF.	PIPE TALLY
		FROM	TO		
12/11	27'	0	2	soil	(1) 21.5 - 21.5
12/11		2	26	clay	(2) 22.5 - 44.0
5 3/8 pdc		26	45	shale	(3) 22.5 - 66.5
		45	48	lime	(4) 22.5 - 89.0
		48	57	sand (some bleeding)	(5) 22.5 - 111.5
		57	76	lime	(6) 22.5 - 134.0
		76	82	shale (slate 76-77)	(7) 22.5 - 156.5
		82	91	lime	(8) 22.5 - 179.0
		91	96	shale	(9) 22.5 - 201.5
		96	115	lime	(10) 22.5 - 224.0
		115	137	shale (Red Bed 118-119)	(11) 22.5 - 246.5
		137	141	gray sand	(12) 22.5 - 269.0
		141	143	shale	(13) 22.5 - 291.5
		143	167	lime	(14) 22.5 - 314.0
		167	194	shale	(15) 22.5 - 336.5
		194	205	lime	(16) 22.5 - 359.0
		205	225	shale	(17) 22.5 - 381.5
		225	235	lime	(18) 22.5 - 404.0
		235	246	shale	(19) 22.5 - 426.5
		246	255	lime	(20) 22.5 - 449.0
		255	273	shale (Brk 269-273)	(21) 22.5 - 471.5
		273	281	lime	(22) 22.5 - 494.0
		281	290	shale	(23) 22.5 - 516.5
		290	295	lime	(24) 22.5 - 539.0
		295	338	shale (lime 326-328)	(25) 22.5 - 561.5
30'		338	363	lime	(26) 22.5 - 584.0
		363	369	shale (slate 364-366)	(27) 22.5 - 606.5

DRILLERS: Eric Schmitz & Isaac Burbank

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	soil	2
24	clay	26
19	shale	45
3	lime	48
9	sand	57
19	lime	76
6	shale	82
9	lime	91
5	shale	96
19	lime	115
22	shale	137
4	gr sand	141
2	shale	143
24	lime	167
27	shale	194
11	lime	205
20	shale	225
10	lime	235
11	shale	246
9	lime	255
18	shale	273
8	lime	281
9	shale	290
5	lime	295
43	shale	338
30'	35	lime 363
	6	shale 369
20'	28	lime 391
	4	shale 395
	3	lime 398
	6	shale 404
"Merika"	6	lime 410
	167	shale 529
	5	lime 534
	17	shale 601
	6	lime 607
	14	shale 621
	3	lime 624
	11	shale 635
	10	lime 641
	15	shale 660

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Sec. 16, Twp. 14, Rng. 21
 Johnson Co., Kansas
 220 FSL 1540 FEL
 API # 15-091-23532-00-00

HUGHES DRILLING REPORT

Well No. 31
 Farm. B. 2. 411
 SURFACE CASING Size. 6 1/4
 Feet. 27
 Circulated 8 sx cement

PERMANENT CSG.
 Size. 2 7/8 rd EUE
 Feet. 903 pipe T.D.
 Bolt at 899.

OPERATOR Hughes Drilling Co.

T. D. at Completion 920
 Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Lime	662
53	Shale	715
1	Lime	716
51	Shale	767
2	Lime	769
32	Shale	801
2	Lime	803
40	Shale	845
9	Red bed	854
4	Shale	858
8	oil sand	866
54	Shale	920 T.D.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
8/18/20	389	391	Lime	(28) 22.5-629.0
	391	395	Shale (slate 393-394)	(4) 22.5-651.5
	395	398	Lime	(3) 22.5-674.0
	398	404	Shale	(6) 22.5-696.5
"Hertka"	404	410	Lime	(6) 22.5-719.0
	410	574	Shale (Brk. 415-419)	(64) 22.5-741.5
	574	584	Lime	(10) 22.5-764.0
	584	601	Shale (Brk. 590-593)	(17) 22.5-786.5
	601	607	Lime	(6) 22.5-809.0
	607	621	Shale	(14) 22.5-831.5
	621	624	Lime	(3) 22.5-854.0
	624	635	Shale	(11) 22.5-876.5
	635	645	Lime	(10) 22.5-899.0
	645	660	Shale (Red bed 634-658)	
	660	662	Lime	
	662	715	Shale	
	715	716	Lime	
	716	767	Shale (slate 766-767)	
	767	769	Lime	
	769	801	Shale	
	801	803	Brk. Lime	
	803	845	Shale	
	845	854	Red bed	
	854	858	Shale	
"Bartlesville"	858	866	oil sand (Remarks pg 3)	
	866	920	Shale	
			T.D.	

8-18-11 set 903 2 7/8" 8rd EUE
 Bolt at 899
 used 3 centralizers

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HUGHES DRILLING CO.

Wellsville, Kansas 66092

1705

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

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

CORE TIME
LEASE Brown #31
FORMATION Bartlesville
DATE: 8-18-11

~~chip~~ chip sample

FROM	FEET TO	TIME	MINUTES	REMARKS	
7	858	859		Sand very laminar w/shale (some bleed)	
7	859	860		} Solid sand (Good bleed) 859-862	
3	860	861			
1	861	862		} sand slightly laminar w/shale (limey) (bleeding)	
7	862	863			
3	863	864		} Sand very laminar w/shale (some bleed) (limey)	
7	864	865			
3	865	866		} shale	
1	866	867			
0	867	868		} Best Perf Zone 859-866 CCH	

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