

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1  
September 1999  
Form Must Be Typed

ORIGINAL

Operator: License # 5682  
 Name: Hughes Drilling Co.  
 Address: 122 N. Main  
 City/State/Zip: Wellsville, Ks. 66092  
 Purchaser: CMT  
 Operator Contact Person: Carl(Clay)Hughes  
 Phone: (913) 963-9127 or 785-883-2235  
 Contractor: Name: company tools  
 License: 5682  
 Wellsite Geologist: none  
 Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     SWD     SIOW     Temp. Abd.  
 Gas     ENHR     SIGW  
 Dry     Other (Core, WSW, Expl., Cathodic, 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./SWD  
 Plug Back     Plug Back Total Depth  
 Commingled    Docket No. \_\_\_\_\_  
 Dual Completion    Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)    Docket No. \_\_\_\_\_  

<u>10/18/05</u>	<u>10/26/05</u>	<u>11/25/05</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

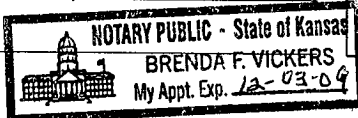
API No. 15 - 059-25099-00-00  
 County: Franklin  
SW SE NW NE Sec. 7 Twp. 17 S. R. 21  East  West  
1595 feet from  N (circle one) Line of Section  
1755 feet from  W (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE  SE NW SW  
 Lease Name: South Hughes Well #: 11  
 Field Name: Paola-Rantoul  
 Producing Formation: Squirrel  
 Elevation: Ground: na Kelly Bushing: \_\_\_\_\_  
 Total Depth: 579 Plug Back Total Depth: 550  
 Amount of Surface Pipe Set and Cemented at 33.10 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set \_\_\_\_\_ Feet  
 If Alternate II completion, cement circulated from 550  
 feet depth to surface w/ 84 sx cmt.

**Drilling Fluid Management Plan** AH II NOR  
 (Data must be collected from the Reserve Pit) 9-12-08  
 Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
 Dewatering method used \_\_\_\_\_  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_ License No. \_\_\_\_\_  
 Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. \_\_\_\_\_ East  West   
 County: \_\_\_\_\_

**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.

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: 1/6/06  
 Subscribed and sworn to before me this 6<sup>th</sup> day of January,  
2006.  
 Notary Public: Brenda F. Vickers  
 Date Commission Expires: 12-03-09



**KCC Office Use ONLY**

LD Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: Hughes Drilling Co. Lease Name: South Hughes Well #: 11  
 Sec. 7 Twp. 17 S. R. 21  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 copy of all Electric Wireline 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  
 (Submit Copy)

List All E. Logs Run:

Log Formation (Top), Depth and Datum  Sample

Name Top Datum

Hertha 231-237  
 #1 Squirrel 506-522

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 5/8	7	12	33.10	portland	10	
production	5 5/8	2 7/8	7	550	50/50poz mi	84	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	2" DML RTG 9 perfs 520-522	fracture-3000 lbs sand	520-522

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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, Resumerd Production, SWD or Enhr: 11/26/05	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. 1 Gas Mcf Water Bbls. 1 Gas-Oil Ratio Gravity 25

Disposition of Gas  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify)

Production Interval

**CONSOLIDATED OIL WELL SERVICES, INC.**

211 W. 14TH STREET, CHANUTE, KS 66720

620-431-9210 OR 800-487-8676

TICKET NUMBER **4951**

LOCATION Ottawa KS

FOREMAN Fred Mader

**TREATMENT REPORT & FIELD TICKET  
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-26-05	3425	South Hughes # 11	7	17	21	FR
CUSTOMER Hughes Drilling			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 122 Main			372	Fred		
CITY Wellsville			164	Rick		
STATE KS			144	Mat		
ZIP CODE 66092						

JOB TYPE Longstring HOLE SIZE 5 7/8 HOLE DEPTH 560' CASING SIZE & WEIGHT 2 7/8" EUE  
 CASING DEPTH 551' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 2 1/2 Rubber Plug  
 DISPLACEMENT 3.2 BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 3 BPM

REMARKS: Establish Circulation Mixt Pump 100# Premium Gel  
w/ 10 BBL Fresh Water Flush Mixt Pump 86% KS 50/50  
Por Mix Cement w/ 1/4# Flo Seal per sk. Cement to surface  
Flush pump clean. Displace 2 1/2" Rubber Plug to casing  
TD w/ 3.2 BBLs Fresh Water. Pressure to 600# PSI.  
Shut in casing.

Fred Mader

Company Tools  
R/S Supplied Water

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5701	1	PUMP CHARGE Cement Pump 164		760.00
5406	10	MILEAGE Pump Truck 164		30.99
5407	Minimum	Ton Mileage 144		260.00
1124	84 SK	50/50 Por Mix Cement		634.20
1118B	6 SKS	Premium Gel		39.78
1107	1 SK	Flo Seal		42.75
4402	1	2 1/2" Rubber Plug		17.00
		Sub Total		1785.73
		Tax @ 6.8%		49.91

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SALES TAX  
 ESTIMATED TOTAL **1838.64**

AUTHORIZATION \_\_\_\_\_

TITLE WD# 200496

DATE \_\_\_\_\_

Hughes Drilling Co.  
**HUGHES DRILLING REPORT**

S. 7, Twp. 17, R. 21E  
 1595 FSH  
 1755 FEL  
 FORMATION DRILLED  
 API # 15-059-25,099

Well No. # 11 Size 7" Circ Size..... Size.....  
 Farm South Hughes Feet. 33.10 10 5 Feet..... Feet.....  
 Water Streak @..... Cond. good Cond..... Cond.....  
 Water Level @..... Top Sand..... T. D. at Completion 579  
 Approved..... Superintendent..... Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T. D.
2	Soil	2
24	clay	26
27	shale	53
22	lime	75
11	shale	86
3	sdylime	89
15	shale	104
7	lime	111
27	shale	138
8	lime	146
19	shale	165
30'	25 Lime	190
9	shale	199
20'	22 Lime	221
4	shale	225
4	lime	229
2	shale	231
"Hearth"	6 Lime	237
109	shale	346
5	Gr Sand	351
37	shale	388
13	lime	401
8	shale	409
4	Gr Sand	413
33	shale	446
8	lime	454
13	shale	467
3	lime	470
10	shale	480
8	lime	488
7	shale	495
2	lime	497
1	shale	498
4	lime	502
4	shale	506
6	Brk Sand	512
#1	1 shale	513
sq	7 Gr Sand	520
	2 Oil Sand	522
	36 shale	558
sq	2 sdylime	560

DATE	HOURS OF TOUR	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
		FROM	TO		
10/18/05		0	2	Soil	① 21.0-26.0
		2	26	clay	② 22.5-43.5
33'		26	53	shale	③ 22.5-66.0
10/20/05		53	75	lime	④ 22.5-88.5
5 1/2" Rotary		75	86	shale (sdyl)	⑤ 22.5-111.0
4 1/2" Bit		86	89	sdylime	⑥ 22.5-133.5
		89	104	shale	⑦ 22.5-156.0
		104	111	lime	⑧ 22.5-178.5
		111	138	shale	⑨ 22.5-201.0
		138	146	lime	⑩ 22.5-223.5
155		146	165	shale (limebreak 149)	⑪ 22.5-246.0
10/21	30'	165	190	lime	⑫ 22.5-268.5
		190	199	shale (slate 189-190)	⑬ 22.5-291.0
	20'	199	221	lime	⑭ 22.5-313.5
		221	225	shale (slate 222-223)	⑮ 22.5-336.0
		225	229	lime (lots of gas)	⑯ 22.5-358.5
		229	231	shale	⑰ 22.5-381.0
"Hearth"		231	237	lime	⑱ 22.5-403.5
Bit Trip (224)		237	346	shale	⑲ 22.5-426.0
drag bit		346	351	Gray Sand	⑳ 22.5-448.5
		351	388	shale (slate 372-373) (Brk 377-379)	㉑ 22.5-471.0
		388	401	lime (Brk 395-401)	㉒ 22.5-493.5
		401	409	shale	㉓ 22.5-516.0
		409	413	Gray Sand	㉔ 22.5-517.0
		413	446	shale	㉕ 22.5-539.5
		446	454	lime	
		454	467	shale	

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10/18/05 - Set 33.10' of 7" surface pipe  
 circulated 10 sack cement  
 to surface

# HUGHES DRILLING REPORT

Well No. # 11 Size..... Size.....  
 Farm South Hughes Feet..... Feet.....  
 Water Streak @..... Cond..... Cond.....  
 Water Level @..... Top Sand.....  
 T. D. at Completion 579'  
 Contractor HUGHES DRILLING CO.  
 Approved..... Superintendent.....

## FORMATION DRILLED

STRATA THICKNESS	FORMATION DRILLED	T. D.
1	Sdy shale	561
1	Sand	562
5	shale	567
2	Sdy shale	569
7	shale	576
1	Sdy lime	577
2	Sdy shale	579
		TD

DATE	HOURS OF TOUR	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
		FROM	TO		
		467	470	Lime (Brown)	
		470	480	shale	
		480	488	Lime (Broken)	
		488	495	shak	
		495	497	Lime	
		497	498	shale (slate 496-497)	
		498	502	Lime (Safe Fossil 498-500)	
		502	506	shale	
		506	512	Broken Sand (core time pg. 3)	
1/27		512	513	shale	
1/27		513	520	Gas Sand (T. Brown)	
1/27		520	522	Oil Sand	
1/27		522	559	shale (Lime 549-550) oil	
1/27		559	560	Sdy Lime - oil trace	
1/27		560	561	Sdy shale - oil trace	
1/27		561	562	Broken Sand - oil show	
1/27		562	567	shale - CORE TIME pg. 4	
1/27		567	569	Sdy shale - oil show	
1/27		569	576	shale	
1/27		576	577	Sdy Lime - oil show	
1/27		577	579	Sdy shale - oil show	
				TD	
10/26/05 - set 550' of 2 1/8" 8' up set pipe seating nipple at 504' used 3 centralizers Bolt in bottom					

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START CORE 507  
 K.D. 13'  
 26 JTS left

START CORE 559'  
 K.D. 19'  
 24 JTS left

# HUGHES DRILLING CO.

Pg. 3

Wellsville, Kansas 66092

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

CORE TIME # 11

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

LEASE South Hughes

FORMATION #1 Squirrel

DATE: 10/21/05

new 3" Shave Bit  
(REM ~~2 1/2"~~)

FROM	FEET TO	TIME	MINUTES	REMARKS
506	507	Ch. Sample	-	Sand very lamin w/shale Bleeding Oil
① 507	508	2:56.00-2:57.00	1.00	
② 508	509	2:57.00-2:58.00	1.00	Sand lamin w/shale (Bleeding Oil) (watered sand)
③ 509	510	2:58.00-2:58.45	.45	
④ 510	511	2:58.45-2:59.45	1.00	
⑤ 511	512	2:59.45-3:00.45	1.00	
⑥ 512	513	3:00.45-3:01.45	1.00	Sand very lamin w/shale (Some gas)
⑦ 513	514	3:01.45-3:03.00	1.15	Shale 513-513.5
⑧ 514	515	3:03.00-3:04.00	1.00	Solid Gas Sand (LT. Brown)
⑨ 515	516	3:08.00-3:08.45	.45	Sand very lamin w/shale (Some gas)
⑩ 516	517	3:08.45-3:09.45	1.00	Solid LT Brown Sand (Gas) (oil show 518-520)
⑪ 517	518	3:09.45-3:10.45	1.00	
⑫ 518	519	3:10.45-3:11.45	1.00	
⑬ 519	520	3:11.45-3:12.45	1.00	Solid Sand (Bleeding Oil 520-522)
⑭ 520	521	3:12.45-3:13.45	1.00	
⑮ 521	522	3:13.45-3:14.45	1.00	SHALE
⑯ 522	523	3:14.45-3:17.00	2.15	
⑰ 523	524	3:17.00-3:18.15	1.15	
⑱ 524	525	3:18.15-3:19.30	1.15	
⑲ 525	526	3:19.30-3:20.45	1.15	
⑳ 526	527	3:20.45-3:21.45	1.00	Possibly Perf

Mid West Survey  
Applied 520-522 OMLRTOGun  
4 shots per ft 9 shots

(Possibly Perf  
508-512 & 520-522)  
CCW  
St Fort Scott 498-500

# HUGHES DRILLING CO.

Wellsville, Kansas 66092

Pg. 4

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

CORE TIME

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

LEASE South Hughes #11

FORMATION #2 Squirrel + #3 Squirrel

DATE: 10/24/05

(REF) 3" shale 2,7

FROM	FEET TO	TIME	MINUTES	REMARKS
558	559	Ship Sample	-	Sdy lime Oil Trace
559	560	12:46:00 - 12:47:15	1:15	
560	561	12:48:15	1:00	Sdy shale Oil Trace
561	562	Add wt 12:54:00 - 12:55:00	1:00	Sand very lamia, w/shale
562	563	12:56:00	1:00	(little bleeding)
563	564	12:56:45	:45	Shale (A few scattered thin strips of sand with oil show)
564	565	12:57:30	:45	
565	566	12:58:30	1:00	
566	567	12:59:15	:45	
567	568	1:00:15	1:00	Sdy shale with a few
568	569	1:01:15	:00	strips of sand with oil
569	570	1:02:30	:15	
570	571	1:03:30	:00	
571	572	1:04:30	1:00	Shale
572	573	1:05:15	:45	
573	574	1:06:00	:45	
574	575	1:06:45	:45	
575	576	1:07:45	1:00	
576	577	1:09:00	1:15	Sdy lime (oil show)
577	578	1:10:00	1:00	Shale with a few strips of sand with oil
578	579	1:11:00	1:00	

(No Good cch)