

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

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 N. Main
Address 2: _____
City: Wellsville State: KS Zip: 66092 + _____
Contact Person: Carl (Clay) Hughes
Phone: (913) 963-9127
CONTRACTOR: License # 5682
Name: Hughes Drilling Co., a General Partnership
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>6/29/10</u>	<u>7/1/10</u>	<u>7/15/10</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 059-25,496-0000
Spot Description: _____
SW SE NE SW Sec. 33 Twp. 15 S. R. 20 East West
1,485 Feet from North / South Line of Section
3,135 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Franklin
Lease Name: Lutter Well #: 8
Field Name: Norwood
Producing Formation: Squirrel
Elevation: Ground: 958 Kelly Bushing: _____
Total Depth: 775 Plug Back Total Depth: 755
Amount of Surface Pipe Set and Cemented at: 23.5 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 755
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: 8/4/10

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____ **RECEIVED**
 Confidential Release Date: _____
 Wireline Log Received **AUG 13 2010**
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Dg **KCC WICHITA**
Date: 8/17/10

Operator Name: Hughes Drilling Co., a General Partnership Lease Name: Lutter Well #: 8

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 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>435-442</td> <td></td> </tr> <tr> <td>1st Squirrel</td> <td>707-720</td> <td></td> </tr> </table>	Name	Top	Datum	Hertha	435-442		1st Squirrel	707-720	
Name	Top	Datum								
Hertha	435-442									
1st Squirrel	707-720									

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"	8"	15#	23.5	portland	6	
Production	5 5/8"	2 7/8"	7#	758	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 <i>(Amount and Kind of Material Used)</i>	Depth
3	27 perms-711.5'-720'- 2" DML RTG	fracture-4,000#	711.5-720

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. 7/16/10		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. 6	Gas Mcf trace
	Water Bbls. 1	Gravity 24

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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" 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: 711.5-720
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CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 26897
LOCATION Ottawa, KS
FOREMAN Jim Green

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7-1-10	3425	Lurrier #8	SE 33	15	20	ER
CUSTOMER <u>Hughes Drilling</u>						
MAILING ADDRESS <u>122 Main</u>						
CITY <u>Wellsville</u>		STATE <u>KS</u>	ZIP CODE <u>66092</u>			

TRUCK #	DRIVER	TRUCK #	DRIVER
481	Jim Gre	JG	
164	Art McR	AM	
548	Col Par	CP	

JOB TYPE Logging HOLE SIZE 8 1/2" HOLE DEPTH 775 CASING SIZE & WEIGHT 2 1/2" AUE8
 CASING DEPTH 758 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 755 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Establish circulation mix and pump 100* Gel to block hole.
Mix and pump 110SK 50% Por Mix Cement 27 Gal. Flush pump clear
of cement. Pump 25' rubber plug to total depth of casing circulating
Cement to surface. Pressure up to 650* PSI. Well held shut well in.

Customer Supplied Water

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	One	PUMP CHARGE <u>Cement Pump</u>		<u>905.00</u>
5406	15	MILEAGE <u>Pump Th</u>		<u>54.75</u>
5402	758'	<u>Casing Forage</u>		<u>N/C</u>
5407	17in	<u>Ton Mileage</u>		<u>315.00</u>
		<u>Vac TR Customer Supplied</u>		<u>N/C</u>
1124	108 SK	<u>50% Por Mix Cement</u>		<u>1062.72</u>
11181B	285 ^{sk}	<u>Premium Gel</u>		<u>57.00</u>
4402	One	<u>2 1/2" rubber Plug</u>	RECEIVED	<u>230.00</u>
			AUG 13 2010	
		<u>WD # 235103</u>	KCC WICHITA	
			SALES TAX	<u>89.15</u>
			ESTIMATED TOTAL	<u>2526.60</u>

Ravin 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

HUGHES DRILLING REPORT

Sec. 33 Twp. 15 Rng. 20
 FR Co., Kansas
 1485 FSL 3135 FEL
 API # 15-059-25496-00-00

Well No. 8 SURFACE CASING PERMANENT CSG.
 Farm Letter Size 8" Size _____
 Feet 23.50 Feet _____
 Circulated 6 sx cement

OPERATOR Hughes Drilling Co.

T. D. at Completion 775'
 Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Soil	2
20	clay	22
44	Shale	66
5	Lime	71
2	Shale	73
20	Lime	93
6	shale	99
11	Lime	110
3	Shale	113
19	Lime	132
30	Shale	162
20	Lime	182
7	Sand	189
72	Shale	261
26	Lime	287
15	Shale	302
8	Lime	310
29	Shale	339
11	Lime	350
20	Shale	370
30'	23 Lime	393
7	Shale	400
20'	26 Lime	426
3	Shale	429
4	Lime	433
2	Shale	435
Horizon	7 Lime	442
119	Shale	561
3	Sand	564
26	Shale	600
4	Lime	604
1	Shale	605
5	LIME	620
3	Shale	623
3	Lime	626
19	Shale	645
1	Lime	656
9	Shale	665
3	Lime	668
130	Shale	681
3	Lime	684

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
6/29/10	0	2	Soil	1 21.5-21.5
	2	22	clay	1 22.5-44.0
	22	66	Shale	1 22.5-66.5
1/30/10	66	71	Lime	1 22.5-89.0
5/9/10	71	73	Shale	1 22.5-111.5
	73	93	Lime	1 22.5-134.0
	93	99	Shale (slate 98-99)	1 22.5-156.5
	99	110	Lime	1 22.5-179.0
	110	113	Shale	1 22.5-201.5
	113	132	Lime	1 22.5-224.0
	132	162	Shale	1 22.5-246.5
	162	182	Lime	1 22.5-269.0
	182	189	Sand	1 22.5-291.5
	189	261	Shale	1 22.5-314.0
	261	287	Lime	1 22.5-336.5
	287	302	Shale (Red bed 296-297)	1 22.5-359.0
	302	310	Lime	1 22.5-381.5
	310	339	Shale	1 22.5-404.0
	339	350	Lime	1 22.5-426.5
	350	370	Shale (Brk 352-354)	1 22.5-449.0
30'	370	393	Lime (Brk 372-374)	1 22.5-471.5
	393	400	Shale (Slate 398-399)	1 22.5-494.0
20'	400	426	Lime	1 22.5-516.5
	426	429	Shale (Slate 428-429)	1 22.5-539.0
	429	433	Lime	1 22.5-561.5
	433	435		1 22.5-584.0
Horizon	435	442	Horizon Lime	1 22.5-606.5

6/29/10 - set 23.50' of 8" surface pipe
 circulated 6 sx cement

Drillers: Isaac Burbank
 Clay Hughes

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HUGHES DRILLING REPORT

1485 FSL 3175 FEL

API # 15-059-25496

Well No. 8
 Farm Letter

SURFACE CASING

PERMANENT CSG.

Size.....

Size.....

Feet.....

Feet.....

Circulated _____ sx cement

T. D. at Completion 775

Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling Co.

STRATA THICKNESS	FORMATION DRILLED	T.D.
13	Shale	677
3	Lime	700
7	Shale	707
13	Oil sand	720
43	Shale	763
1	Oil sand	764
11	Shale	775
		770

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
<u>6/30/10</u>	<u>442</u>	<u>561</u>	Shale (BRK 445-448) (Sndy shale 480-510)	
	<u>561</u>	<u>564</u>	Sand (Breeding oil)	(28) 22.5-629.0
	<u>584</u>	<u>600</u>	Shale	(29) 22.5-651.5
	<u>600</u>	<u>604</u>	Lime (Sndy little oil show)	(30) 22.5-674.0
	<u>604</u>	<u>615</u>	Shale	(31) 22.5-696.5
	<u>615</u>	<u>620</u>	Lime	(32) 22.5-719.0
	<u>620</u>	<u>623</u>	Shale	(33) 22.5-741.5
	<u>623</u>	<u>626</u>	Lime (oil trace)	(34) 22.5-764.0
	<u>626</u>	<u>645</u>	Shale (BRK 633-635)	
	<u>645</u>	<u>656</u>	Lime	
	<u>656</u>	<u>665</u>	Shale	
	<u>665</u>	<u>668</u>	Lime (Brown)	
	<u>668</u>	<u>681</u>	Shale (Slate 680-681)	
	<u>681</u>	<u>684</u>	Lime	
	<u>684</u>	<u>697</u>	Shale (Slate 694-695)	
	<u>697</u>	<u>700</u>	Lime (oil show)	
<u>7/29</u>	<u>700</u>	<u>707</u>	Shale	
<u>7/1/10</u>	<u>707</u>	<u>720</u>	Oil sand (core time pg 3)	
	<u>720</u>	<u>763</u>	Shale	
	<u>763</u>	<u>764</u>	Lt Brown sand (No show)	
	<u>764</u>	<u>775</u>	Shale	
			TD	
<u>7/1/10</u>			Set 758' of 2 7/8" 8rd EUE	
			used 3 centralizers	
			Bolt in Bottom at 755'	

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HUGHES DRILLING CO.

PSU

Wellsville, Kansas 66092

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

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

CORE TIME
LEASE #8 Letter
FORMATION #1 Squirel
DATE: 6-30-10

(RPM 3" Shale Bit)

FROM	FEET TO	TIME	MINUTES	REMARKS	
707	708	chip sample	—	707-710 Some Bleeding Sand very lamin. w/ shale	
708	709	chip sample	—		
① 709	710	3:04:00-3:05:00	1:00	710-710.5 - lamin. w/ shale (some bleed)	
② 710	711	3:06:15	1:15	shy time 710.5-711.5	
③ 711	712	3:07:15	1:00	711.5 - 719.5 Solid Sand Good Bleeding (excl) (A Few thin shale streaks) 717-719	
④ 712	713	3:08:00	:45		
⑤ 713	714	3:09:00	1:00		
⑥ 714	715	3:10:00	1:00		
⑦ 715	716	3:10:45	:45		
⑧ 716	717	3:11:45	1:00		
⑨ 717	718	3:12:30	:45		
⑩ 718	719	3:13:30 ^{stop} ₃₀₀ _{joint}	1:00		
⑪ 719	720	3:14:00 - 3:14:45	:45		719.5 - 720 lamin w/ shale (Bleeding)
⑫ 720	721	3:26:00	1:15		(A Few thin sand streaks; 720-723 oil show shale Best Perf Zone 711.5-720 CCH
⑬ 721	722	3:27:00	1:00		
⑭ 722	723	3:28:15	1:15		
⑮ 723	724	3:29:45	1:30		
⑯ 724	725	3:31:00	1:15		
⑰ 725	726	3:32:00	1:00		
⑱ 726	727	3:33:30	1:30		
⑲ 727	728	3:34:45	1:15		
⑳ 728	729	3:36:00	1:15		

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