

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 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 #: _____

<u>7/2/10</u>	<u>7/15/2010</u>	<u>11-3-10</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 059-25,495 -0000
Spot Description: _____
SE SE NE SW Sec. 33 Twp. 15 S. R. 20 East West
1,485 Feet from North / South Line of Section
3,465 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Franklin
Lease Name: Lutter Well #: 7
Field Name: Norwood
Producing Formation: Squirrel
Elevation: Ground: _____ Kelly Bushing: _____
Total Depth: 790 Plug Back Total Depth: 769.9
Amount of Surface Pipe Set and Cemented at: 23 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 769.9
feet depth to: surface w/ 113 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: 12/31/10

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: 1/10/11

Operator Name: Hughes Drilling Company Lease Name: Lutter Well #: 7
 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>436-442</td> <td></td> </tr> <tr> <td>Squirrel</td> <td>714-733</td> <td></td> </tr> </table>	Name	Top	Datum	Hertha	436-442		Squirrel	714-733	
Name	Top	Datum								
Hertha	436-442									
Squirrel	714-733									

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	portland	5	
Production	5 5/8"	2 7/8"	7#	775	50/50 poz	113	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	56 perms-715'-733'-2" DML RTG	fracture-5,000#	715-733

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. 11/4/10		Producing Method: <input type="checkbox"/> Flowing <input 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 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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>715-733</u>
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CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 27005
LOCATION Oxiana KS
FOREMAN Fred Mader

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7/15/10	3425	Lutter #7	SW 33	15	20	FR
CUSTOMER Hughes Drilling Co.			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS 122 Main			506 Fred Safety Mfg			
CITY STATE ZIP CODE Wellsville KS 66092			368 Ken KH			
			503 Arlen Ham			

JOB TYPE hang string HOLE SIZE 5 7/8 HOLE DEPTH 790 CASING SIZE & WEIGHT _____
 CASING DEPTH 775 DRILL PIPE PM2 TUBING 770' 2 3/8" EUE OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 4.5 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Establish circulation Mix Pump 100 # Gel Flush. Mix Pump
115 SKS 50/50 Por Mix Cement 2% Gel. Cement to Surface
Flush pump & lines clean. Displace 2 1/2" Rubber Plug to
casing TD w/ 4.5 BBL Fresh Water. Pressure to 680# PSI
Shut in casing

Customer supplied water

Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		925 ⁰⁰
5406	15 mi	MILEAGE		54 ²⁵
5402	775'	Casing Footage		N/C
5407	Minimum	Ten Miles		315 ⁰⁰
RECEIVED JAN 03 2011 KCC WICHITA				
1124	113 SKS	50/50 Por Mix Cement		1111 ⁹²
1118B	293 ⁰⁰	Premium Gel		58 ⁶⁰
4402	1	2 1/2" Rubber Plug		28 ⁰⁰
1404	2 1/2 Gal	NE-100 polymer Del to Rig		118 ⁵⁰
W/O #235 524				
			7.8%	SALES TAX ESTIMATED TOTAL
				102 ³⁰
				2708 ⁷⁰

Revin 3737

AUTHORIZATION _____ 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

1485 FSL 3465 FEL

API # 15-099-25,495

Well No. 7 SURFACE CASING
 Farm Lutter Size 8"
 Feet 23.0
 Circulated 5 sx cement

PERMANENT CSG.
 Size 2 7/8" 8rd EUE
 Feet 775 (Bolt at 769, 75)

OPERATOR Hughes Drilling Co.

T. D. at Completion 790
 Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	SOIL	2
17	clay	19
47	shale	66
6	lime	72
2	shale	74
18	lime	92
7	shale	99
11	lime	110
3	shale	113
21	lime	134
31	shale	165
18	lime	183
11	sand	194
67	shale	261
22	lime	283
17	shale	300
8	lime	308
32	shale	340
11	lime	351
20	shale	371
30'	23	lime 394
7	shale	401
20'	25	lime 426
4	shale	430
4	lime	434
2	shale	436
14'	6	lime 442
117	shale	579
4	sand	583
35	shale	598
11	lime	609
6	shale	615
10	lime	625
21	shale	646
9	lime	655
12	shale	667
3	lime	670
9	shale	679
5	lime	684
13	shale	697
4	lime	701

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
7/2/10	0	2	soil	(1) 21.5-21.5
	2	19	clay	(2) 22.5-49.0
23'	19	66	shale	(3) 22.5-66.5
7/13/10	66	72	lime	(4) 22.5-89.0
	72	74	shale	(5) 22.5-111.5
	74	92	lime	(6) 22.5-134.0
	92	99	shale slate (98-99)	(7) 22.5-156.5
	99	110	lime	(8) 22.5-179.0
	110	113	shale	(9) 22.5-201.5
	113	134	lime	(10) 22.5-224.0
	134	165	shale	(11) 22.5-246.5
	165	183	lime	(12) 22.5-269.0
	183	194	sand	(13) 22.5-291.5
	194	261	shale	(14) 22.5-314.0
	261	283	lime	(15) 22.5-336.5
	283	300	shale (Real Bed 298-299)	(16) 22.5-359.0
	300	308	lime	(17) 22.5-381.5
	308	340	shale	(18) 22.5-404.0
	340	351	lime	(19) 22.5-426.5
	351	371	shale (BRK 354-356)	(20) 22.5-449.0
30'	371	394	lime	(21) 22.5-471.5
580	394	401	shale (slate 399-400)	(22) 22.5-494.0
7-14-10	401	426	lime	(23) 22.5-516.5
	426	430	shale (slate 429-430)	(24) 22.5-539.0
	430	434	lime	(25) 22.5-561.5
	434	436	shale	(26) 22.5-584.0
14' Hestha	436	442	lime	(27) 22.5-606.5

7/2/10 - Set 23.0' of 8" surface pipe
 Circulated 5 sacks cement

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HUGHES DRILLING REPORT

SURFACE CASING

PERMANENT CSG.

Well No. 7 Size _____ Size _____
 Farm LaHess Feet _____ Feet _____
 Circulated _____ sx cement

T. D. at Completion 790

Contractor HUGHES DRILLING CO.

OPERATOR Hughes Drilling Co.

API # _____

STRATA THICKNESS	FORMATION DRILLED	T.D.
13	Shale	714
sq 19	oil sand	733
17	Shale	750
1	Lime	751
5	Shale	756
1	Lime	757
33	Shale TD	790

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
7/14/10	442	559	shale (BRK 446-448)	(28) 2.5-629.0
	559	563	sand (some bleeding oil)	(29) 2.5-651.5
	563	598	shale	(50) 2.5-674.0
	598	609	Lime (oil trace)	(31) 2.5-696.5
	609	615	shale	(32) 2.5-719.0
	615	625	Lime	(33) 2.5-741.5
	625	646	shale (BRK 633-637) (slate 637-646)	(34) 2.5-764.0
	646	655	Lime	(35) 2.5-786.5
	655	667	shale	
	667	670	Lime (BROWN)	
	670	679	shale (slate 678-679)	
	679	684	Lime	
	684	697	shale	
	697	701	Lime (bleeding oil)	
	701	714	shale	
7/15/10	sq 714	733	oil sand (core thinning?)	
	733	750	shale	
	750	751	Lime	
	751	756	shale	
	756	757	Lime	
	757	790	shale	
		TD		
7/15/10	- set 775' of 2 7/8" Rod			EVE PRO
	Bolt at 769.90			
	used 3 centralizers			

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KCC WICHITA

HUGHES DRILLING CO.

pg 3

Wellsville, Kansas 66092

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

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

CORE TIME
LEASE Letter #7
FORMATION #1 Squirrel
DATE: 7-14-10

(RPM 3" Show Bit)

FROM	FEET TO	TIME	MINUTES	REMARKS	
		Chip sample		} Solid shale w/ a few thin sand streaks (oil sho.)	
		Chip sample			
①	714	715	1:18:00 - 1:19:15	1:15	
②	715	716	1:20:15	1:00	} slightly lamina w/shale 715-717 (Bleeding)
③	716	717	1:21:30	1:15	
④	717	718	1:22:15	:45	} Solid Sand (Bleeding) A few thin shale seams
⑤	718	719	1:23:30 ^{Stop APP}	1:15	
⑥	719	720	1:27:00 - 1:28:00	1:00	- Sand lamina w/shale (B.O.)
⑦	720	721	1:29:00	1:00	} Solid Sand 720-724.5 (Good Bleeding)
⑧	721	722	1:30:00	1:00	
⑨	722	723	1:31:00	1:00	
⑩	723	724	1:32:00	1:00	
⑪	724	725	1:33:00	1:00	} sand very lamina w/shale (B.O.) 724.5 - 726.5
⑫	725	726	1:34:00	1:00	
⑬	726	727	1:35:00	1:00	} Solid Sand 727.5 - 730 (exc. Bleeding)
⑭	727	728	1:36:00	1:00	
⑮	728	729	1:37:15	1:15	
⑯	729	730	1:38:30	1:15	} (from 730-734) Lost core check E-log
⑰	730	731	1:39:30	1:00	
⑱	731	732	1:40:30	1:00	} Sand (Bleeding)
⑲	732	733	1:41:30	1:00	
⑳	733	734	1:42:45	1:15	- Shale

10/28/10
Midwest surveys
perfed 715-733
2" DMH-RTG
56 perfs

(Best Perf Zone)
715 - 733

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JAN 03 2011
KCC WICHITA