

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 5056
Name: F.G. Holl Company, L.L.C.
Address: 9431 E. Central, Suite 100
City/State/Zip: Wichita, Kansas 67207
Purchaser: NCRA
Operator Contact Person: Franklin R. Greenbaum
Phone: (316) 684-8481
Contractor: Name: Duke Drilling Company, Inc.
License: 5929
Wellsite Geologist: Rene Husted

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW 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>09/26/2006</u>	<u>10/06/2006</u>	<u>10/19/2006</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 185-23,391 0000
County: Stafford. 70' N. & 120' W. of
C S/2 SE SE Sec. 21 Twp. 21 S. R. 14 East West
400 feet from (S) N (circle one) Line of Section
780 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: FORD Well #: 1-21
Field Name: Wildcat
Producing Formation: Lansing - Kansas City
Elevation: Ground: 1935' Kelly Bushing: 1943'
Total Depth: 3925' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at 840 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT ILOH
(Data must be collected from the Reserve Pit) 8-27-07
Chloride content 32,000 ppm Fluid volume 1,000 bbls
Dewatering method used Hauled fluids to SWD
Location of fluid disposal if hauled offsite:
Operator Name: John J. Darrah
Lease Name: ANSHUTZ SWD License No.: 5088
Quarter NE Sec. 15 Twp. 21 S. R. 14 East West
County: Stafford Docket No.: D-17,893

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: Franklin R. Greenbaum
Title: Exploration Manager Date: 11/14/2006

Subscribed and sworn to before me this 14th day of November, 2006
The State of Kansas, The County of Sedgwick
20
Notary Public: Betty H. Spotswood

Date Commission Expires: 04/30/2010

Notary Public - State of Kansas
BETTY H. SPOTSWOOD
My Appointment Expires 4/30/2010

KCC Office Use ONLY

Letter of Confidentiality Received
If Denied, Yes Date: 3-1-07
 Wireline Log Received **RECEIVED**
 Geologist Report Received **FEB 23 2007**
 UIC Distribution

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Operator Name: F.G. Holl Company, L.L.C. Lease Name: FORD Well #: 1-21
 Sec. 21 Twp. 21 S. R. 14 East West County: Stafford. 70' N. & 120' W. of

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)

Log Formation (Top), Depth and Datum Sample
 Name Top Datum
 See attachment

List All E. Logs Run:

ML/CNL/CDL
 BHCS/DIL

CASING RECORD <input checked="" 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	12-1/4"	8-5/8"	23#	840'	Common	125sx	
					A-Con blend	210sx	
Production	7-7/8"	4-1/2"	10.5#	3920'	AA-2	175sx	

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 SPF	3555' - 3560', 3626' - 3630'	500 gal 10% acetic acid	
		500 gal 10% Mira acid	
		2,000 gal 15% NEFE acid	

TUBING RECORD	Size <u>2-3/8"</u>	Set At <u>3885'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumerd Production, SWD or Enhr. <u>October 22, 2006</u>	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbbs. <u>90</u>	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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Disposition of Gas Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 3555' - 3630' LKC
(If vented, Submit ACO-18.) Other (Specify)

FORD NO. 1-21
STAFFORD COUNTY, KANSAS

Formation	Sample	Datum	E-Log	Datum
Herrington	1843	+100	1839	104
Winfield	1899	+44	1889	54
Towanda	1964	-21	1954	-11
Fort Riley			1994	-51
B/Florence	2092	-149	2093	-150
Council Grove	2166	-233	2166	-223
Red Eagle			2409	-466
Stotler			2715	-772
Willard Shale			2741	-798
Tarkio/Elmont			2777	-834
Howard			2920	-977
Topeka			2792	-849
Heebner	3286	-1343	3285	-1342
Toronto	3313	-1370	3307	-1364
Douglas Sh.			3326	-1383
Douglas Sand			3328	-1385
Brown Lime	3403	-1460	3402	-1459
LKC	3410	-1467	3415	-1472
BKC			3622	-1679
Marmaton				
Conglomerate			3647	-1704
Viola			3680	-1737
Simpson Sh.			3727	-1784
Simpson Ss.			3745	-1802
Arbuckle			3778	-1835
RTD			3925	-1982
LTD				

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Customer: F.G. Holl Company, LLC Lease No. _____ Date: 10-7-06
 Lease: Ford Well # 1-21
 Field Order # 13,694 Station: Pratt Casing 1/2 10.5 Lb. Depth 3,920' County Stafford State KS
 Type Job Long String - New Well Formation _____ Legal Description 21-215-14W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size <u>1/2 10.5 Lb./Ft.</u>	Tubing Size _____	Shots/Ft _____	_____	<u>Cement</u>		RATE <u>AA-2 w/ 3% Friction Reducer,</u>	PRESS <u>322, 10% Salt, 75% Gas</u>
Depth <u>3,920'</u>	Depth _____	From _____	To _____	<u>25% Defoamer,</u>	<u>1.5% FLA</u>	<u>10% Salt,</u>	<u>75% Gas</u>
Volume <u>62.33 Bbl.</u>	Volume _____	From _____	To _____	<u>Blok, 25 Lb./sk.</u>	<u>Cellflite, 10 Lb./sk.</u>	<u>Gilsonite</u>	
Max Press <u>1,400 P.S.I.</u>	Max Press _____	From _____	To _____	<u>15.05 Lb./Gal.</u>	<u>3.83 Gal/sk.</u>	<u>1.46 cu. Ft./sk.</u>	
Well Connection <u>Plug Cont.</u>	Annulus Vol. _____	From <u>50 sacks</u>	To <u>Scavenger/35 sacks lead</u>	<u>15 sacks</u>	<u>rathole - 10 sacks</u>	<u>mousehole</u>	
Plug Depth <u>3,905'</u>	Packer Depth _____	From _____	To _____	Flush <u>62 Bbl. Fresh H₂O</u>	Gas Volume _____	Total Load _____	

Customer Representative Rob Long Station Manager Dave Scott Treater Clarence R. Messick

Service Units	<u>119</u>	<u>228</u>	<u>309</u>	<u>572</u>					
Driver Names	<u>Messick</u>	<u>McGuire</u>	<u>Mattal</u>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<u>3:00</u>					<u>Trucks on location and hold Safety meeting.</u>
<u>3:20</u>					<u>Casing in well. Circulate and Rotate for 2 1/2 hours.</u>
<u>6:02</u>	<u>300</u>			<u>6</u>	<u>Start Fresh H₂O Pre-Flush.</u>
			<u>20</u>	<u>6</u>	<u>Start Super² Flush.</u>
			<u>32</u>	<u>5</u>	<u>Start Fresh H₂O Spacer.</u>
			<u>35</u>		<u>Stop pumping. Shut in well.</u>
			<u>4-3</u>	<u>2</u>	<u>Plug rat and mouse holes. Open well.</u>
<u>6:24</u>	<u>200</u>			<u>5</u>	<u>Start mixing 35 sacks Scavenger cement.</u>
	<u>200</u>		<u>15</u>	<u>5</u>	<u>Start mixing 175 sacks AA-2 cement.</u>
			<u>60</u>		<u>Stop pumping. Shut in well. Wash pump and lines. Release plug. Open Well.</u>
<u>6:39</u>	<u>150</u>			<u>6.5</u>	<u>Start Fresh H₂O Displacement.</u>
<u>6:45</u>	<u>150</u>		<u>44</u>	<u>5</u>	<u>Start to lift cement.</u>
<u>6:49</u>	<u>600</u>		<u>62</u>		<u>Plug down.</u>
	<u>1,400</u>				<u>Pressure up.</u>
					<u>Release pressure. Insert held.</u>
					<u>Wash up pump truck.</u>
<u>7:15</u>					<u>Job Complete.</u>
					<u>Thanks,</u>
					<u>Clarence, Corey, Mike</u>

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TREATMENT REPORT

Customer: F. G. Hill	Lease No.:	Date: 9-27-06
Lease: Ford	Well #: 1-21	
Field Order #: 15208	Station: Pratt	Casing: 8 5/8 Depth: 139 County: Stafford State: KS
Type Job: 8 5/8 S.P.N.W.	Formation:	Legal Description: 21-215-HW

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size: 8 5/8	Tubing Size:	Shots/F:	cat.	Acid: 210sk. A. Con	RATE:	PRESS:	ISIP:	
Depth: 840	Depth:	From:	To:	Pre Pad: 2.57ft³	Max:		5 Min:	
Volume: 54 3/4	Volume:	From:	To:	Pad: 125sk. Common	Min:		10 Min:	
Max Press: 500	Max Press:	From:	To:	Frac: 1.46ft³	Avg:		15 Min:	
Well Connection:	Annulus Vol.:	From:	To:		HHP Used:		Annulus Pressure:	
Plug Depth: 830	Packer Depth:	From:	To:	Flush: 53.5 Bbl.	Gas Volume:		Total Load:	

Customer Representative: Steve Stephens	Station Manager: Dave Scott	Treater: Bobby Drake
Service Units: 123	309	457
Driver Names: Drake	Lisley	Bales

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
5:30					On Location - Safety Meeting
7:15					Run 21jts of 8 5/8 - 23" Csg.
8:15					Csg. on Bottom
8:30					hook up to Csg. - Break Circ. w/ Plug
8:52	200		10	5.0	H2O Ahead
8:54	200		110	5.0	Mix Lead Cont. @ 12.0#/gal
9:15	200		40	5.0	Mix Tail Cont. @ 14.6#/gal
9:28					Release Plug
9:29	150			5.5	start Disp.
9:40	200		53.5		Plug Down
					Circulation Thru Job
					Circulated Cont. To Pit
					Job Complete
					Thanks, Bobby

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Mud-Co / Service Mud Inc.

Operator **FG Holl** County **Stafford** State **Kansas** Pump **6** X **14** X **60** SPM Casing Program **8 5/8**" @ **8**
 Well **Ford #1-21** Location _____ GPM **7.75** BPM
 Contractor **Duke #8** Sec **21** TWP **21S** RNG **14W** D.P. **4.5** in. **61.5** FT/MIN R.A.
 Stockpoint **Pratt, Ks.** Date **9/26/2006** Engineer **Rick Hughes** Collar **6.25** in. **495** ft. **71.9** FT/MIN R.A.
 Total Depth **3925** ft.

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DATE	DEPTH feet	WEIGHT lb/gal	VISCOSITY			GELS 10 sec / 10 min.	pH Slip Meter	FILTRATION ANALYSIS					SAND %	RETORT			L.C.M.	Pump Press. PSI	CUMULATIVE COST	REMARKS AND TREATMENT				
			Sec API @ F	PV @ F	Yp			ml API	Cake 32nds	Pres. #/BBL	Cl ppm	Ca ppm		Solids %	Oil %	Water %								
9/26	280																							
9/28	1793	9.3	38	8	12	8/12	12.5	8.0	1		48m	Hvy	4.3		95.7							Drlg		
9/29	2215	9.6	38	9	15	6/11	8.5	8.0	2		90m	Hvy	4.0		96.0								Drlg	
9/30	2855	8.9	47	11	15	12/29	11.5	8.0	1		5,000	Nil	3.4		96.6								Drlg Displace at 1600/2550	
10/1	3475	9.3	50	12	14	14/33	9.5	9.6	1		5,000	80	6.8		93.2								Drlg	
10/2	3552	9.4	52	13	16	19/38	11.0	8.0	1		7,000	TR	7.4		92.6								Drlg	
10/3	3592	9.4	50	13	10	13/43	10.5	8.4	1		8,700	40	7.4		92.6								Circ after DST 1 DST #2 @ 3570	
10/4	3662	9.1	64	15	21	26/47	11.5	8.0	1		8,500	40	5.3	0.1	94.6		3						DST #3 DST #4 @ 3637	
10/5	3756	8.8	65	13	18	27/57	11.0	8.8	1		9,200	20	3.1		96.9		2						Drlg DST #5 @ 3690	
10/6	3790	9.2	54	12	21	24/48	11.0	9.2	1		9,500	40	5.2		94.8								CFS DST #6 @ 3756	
10/7	3925																							TO w/DST #7 DST #7 @ 3790
																								Final: 7 DST's. Ran casing.
																								LTD 3925

Reserve Pit, Chl content ppm: 32,000
 Estimated Volume: 1000 bbls

MUD-CO / SERVICE MUD INC.
 100 S Main Suite #310
 Wichita, Ks 67202
 316/264-2814 Fax: 316/264-5024

DRILLING MUD RECAP

Materials	Sacks	Materials	Sacks	Amount	Amount
C/S HULLS	66	CIDE 102W	1	291.49	
CAUSTIC SODA	36				
DESCO	2				
DRILL PAK	7				
LIME	1				
PREMIUM GEL	453				
SALT CLAY	58				
SODA ASH 50#	31				
STARCH	57				
SUPER LIG	19				

Total Mud Cost
 Trucking Cost
 Trucking Surcharge
 Taxes
TOTAL COST