

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 # 33864  
Name: Habit Petroleum LLC  
Address 1: 639 280th Ave  
Address 2: \_\_\_\_\_  
City: Hays State: KS Zip: 67601 + \_\_\_\_\_  
Contact Person: Irvin E Haselhorst  
Phone: ( 785 ) 623-1154  
CONTRACTOR: License # 5184  
Name: Shields Oil Producers Inc  
Wellsite Geologist: Duane Stecklein  
Purchaser: Coffeyville Resources

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>3/4/2011</u>	<u>3/10/2011</u>	<u>3/22/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 051-26103-00-00

Spot Description: \_\_\_\_\_  
S2 SW SE NW Sec. 12 Twp. 15 S. R. 18  East  West  
2,620 Feet from  North /  South Line of Section  
1,650 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW

County: ELLIS

Lease Name: HASELHORST Well #: 1

Field Name: LEIKER EAST

Producing Formation: ARBUCKLE

Elevation: Ground: 2011 Kelly Bushing: 2016

Total Depth: 3630 Plug Back Total Depth: 3619

Amount of Surface Pipe Set and Cemented at: 1800 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

(Data must be collected from the Reserve Pit)

Chloride content: 1600 ppm Fluid volume: 100 bbls

Dewatering method used: EVAPORATION

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

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**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: Irvin E. Haselhorst  
Title: President Date: 10-19-11

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: DJG Date: 10/21/11

Operator Name: Habit Petroleum LLC Lease Name: HASELHORST Well #: 1

Sec. 12 Twp. 15 S. R. 18  East  West County: ELLIS

**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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets)  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If no, Submit Copy)	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name <u>Arbuckle</u> Top <u>3604</u> Datum <u>-1588</u>
List All E. Logs Run: <u>1. Radiation Guard Log</u> <u>2. Dual Receiver Cement Bond</u>	

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	12.25	8 5/8	23#	1180	(MIDCON#)	375	100# FLOCELE
LONGSTRING	7.875	5 1/2	14#	3632	STANDARD	150	Halard 9

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
4SPF	3604-08	Natural	

TUBING RECORD:	Size: <u>2 3/8</u>	Set At: <u>3612</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.	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. <u>16</u>	Gas Mcf	Water Bbls. <u>70</u>	Gas-Oil Ratio <u>1890</u> Gravity <u>28</u>

DISPOSITION OF GAS: <input checked="" type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify)	PRODUCTION INTERVAL: <u>Arbuckle 3604-08</u>
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**JOB LOG**

**SWIFT Services, Inc.**

DATE 03-05-11 PAGE NO. 7

CUSTOMER HARIZ PETROLEUM WELL NO. 1 LEASE HASELHURST JOB TYPE DEEP-SURFACE TICKET NO. 19612

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1400							DN LOCATION CMT: 375 S/S - SMD 1/4" FLOCELE RD 1183, SET PIPE 1180, SJ 10.0, INSET 1170 85 R23" H. NEW, 1 1/4" HOLE CENT: 2, 4, 6,
	1630							START CIRC. FLOW TEST
	1800							BREAK CIRC. w/ RIG
	1835	5.0	20				300	200 BBL WCL FLUSH
		5.0	0				300	START CMT 100 S/S @ 11.8 #/sq
			48					150 S/S @ 12.5 #/sq
			108					100 S/S @ 13.5 #/sq
			139					25 S/S @ 14.5 #/sq
			148					END CMT 375 S/S TOTAL DROP PLUG
		5.0	0				300	START D/S
			400				300	- CIRC. CMT 70 FT! <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">50 S/S</span>
			700				400	
	1930		73.7				500	LAND PLUG, CLOSE IN
	2000							JOB COMPLETE  THANK YOU! DAVE JOSEPH, P. 23

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JOB LOG

SWIFT Services, Inc.

DATE 3-10-11 PAGE NO. 1

CUSTOMER Habit Petroleum WELL NO. #1 LEASE Hazelhorst JOB TYPE Longstring TICKET NO. 19545

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1815							onloc w/ FE
								RTD 3630'
								5 1/2" x 14# x 3631' x 39'
								Cent, 3,5,7,9,11,13
								Block 2
								out 62,67
	1945							start FE
	2130							Break Circ
	2220	2.5	7/5					Plug RH & MH 25/15 EA-2
	2230	4.5	0			200		Start Mud Flush 500gal
	2233	4.5	12/0			200		Start KCL Flush 20 bbl
	2240	5.5	20/0			250		Start Cement 110 sks EA-2
	2245		28					End Cement
								Wash P & L
								Drop LD Plug
	2250	6.5	0			150		Start Displacement
	2300	5	63			200		Catch Cement
	2305		87.5			650/1400		Land Plug
								Release Pressure
								Float Held

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Thank you  
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Nick, Josh F + John

# **DUANE STECKLEIN**

**PETROLEUM GEOLOGIST  
579 280<sup>TH</sup> AVE.  
HAYS, KANSAS 67601  
785-432-2477**

## **GEOLOGICAL REPORT**

**Habit Petroleum  
Haselhorst #1  
2620' FNL + 1650' FWL  
SEC. 12 TWP 15s RGE 18w  
Ellis County, Kansas**

**COMMENCED: 3-04-11  
COMPLETED: 3-10-11  
CONTRACTOR: Shields Drilling  
SURFACE PIPE: 8 5/8 at 1180'  
PRODUCTION PIPE: 5 1/2 at 3628'**

**April 4, 2011**

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## Formation Data

Elevation: (2011' G.L.) – (2016' K.B.)  
All top formations measured from 2016' K.B.

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>SEA-LEVEL DATUM</u>
Anhydrite	1175	+841
Topeka	3000	-984
Heebner	3265	-1249
Toronto	3284	-1268
Lansing-K.C.	3314	-1298
Base-K.C.	3543	-1527
Arbuckle	3606	-1590
R.T.D.	3630	-1614

<u>FORMATION</u>	<u>LOG TOPS</u>	<u>SEA-LEVEL DATUM</u>
Topeka	2998	- 982
Heebner	3263	-1247
Toronto	3283	-1267
Lansing-K.C.	3212	-1296
Base-K.C.	3540	-1524
Arbuckle	3604	-1588
R.T.D.	3629	-1613

All samples were examined and described by me on actual location and did not start until a depth of 2950' was reached. All zones and sample tops examined are all true and accurate according to drillers' depth.

One foot drilling time was logged from a depth of 2950' to 3630', and all zones were examined by ten foot samples at a rotary depth of 2950' to 3300'. Five foot samples were examined from a rotary depth of 3305' to 3630'.

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## Sample Description

Following are the pertinent geological formations and all zones of subject well Haselhorst #1.

### THE FOLLOWING ZONES WERE NOTED:

TOPEKA	3000-3027	Limestone – buff and tan, very fine crystalline to no visible porosity, no show of oil.
	3031-3045	Limestone – tan, fine crystalline, poor inter porosity, no show of oil.
DEER CREEK	3055-3085	Limestone – buff to tan, fine crystalline to chalky, very poor porosity, no show of oil.
	3096-3110	Limestone – cream and buff, fine crystalline to chalky and fossiliferous, no show of oil.
LECOMPTON	3126-3135	Limestone – cream to tan, fine crystalline, fossiliferous, to cherty and chalky, poor to no inter porosity, no show of oil.
	3140-3143	Limestone – cream, fine crystalline to chalky, cherty in part, poor porosity, no show of oil.
	3144-3176	Limestone – white to buff, chalky to cherty, fine crystalline in part, poor to no inter porosity, no show of oil.
OREAD LIME	3191-3210	Limestone – cream, tan and buff, chalky and cherty, no visible porosity, no show of oil.
	3223-3230	Limestone – cream, fine crystalline, sucrosic with a light yellow stain, fair inter porosity with good odor.
	3231-3264	Limestone – buff to cream, fine tight crystalline and chalky, poor to no inter porosity, no show of oil.

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TORONTO 3281-3297 Limestone – tan, fine crystalline, tight, poor porosity, very slight show of light yellow oil stain.

LANSING – K.C.

(A-Zone) 3114-3320 Limestone – tan to cream, fine crystalline, poor inter porosity to a slight vuggy porosity in part, small show of oil stain, slight odor.

(C-Zone) 3339-3343 Limestone – white to tan, oolitic, fair show of oil stain to free oil, fair odor.

(D-Zone) 3357-3361 Limestone – cream to buff, fine crystalline to dense lime, poor to no inter porosity, no show of oil.

(F-Zone) 3390-3395 Limestone – cream to white, fine crystalline, very small show of oil stain, poor inter porosity, no odor.

(G-Zone) 3401-3414 Limestone – white to cream, fine crystalline to chalky and cherty, no visible porosity, no show of oil.

(H-Zone) 3443-3454 Limestone – cream to buff, fine crystalline to cherty, poor to no inter porosity, no show of oil.

(I-Zone) 3471-3478 Limestone – white to cream, dense lime, no visible porosity, chalky in part, no show of oil.

(J-Zone) 3482-3492 Limestone – white, fine crystalline to oolitic, poor inter porosity with small show of black residual stain, odor noted.

(K-Zone) 3500-3515 Limestone – white, dense to chalky lime, cherty in part, no visible porosity, no show of oil.

BASE - K.C.

(L-Zone) 3537-3543 Limestone – same as above.

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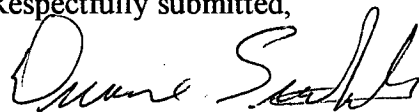


ARBUCKLE	3606-3610	Dolomite – cream, fine crystalline, sucrosic and friable, show of light oil stain to free oil with good odor.
	3611-3618	Dolomite – same as above with scattered shows of oil.
	3619-3630	Dolomite – white, fine to medium crystalline, mostly barren.

## Remarks and Conclusion

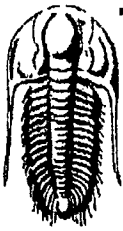
During the drilling of the Haselhorst #1, the subject well ran structurally 6' higher in the Arbuckle than the Stecklein-Haselhorst #1, due to the oil recovered in the drill stem test, the operator of Habit Petroleum set production casing to further test the Haselhorst #1.

Respectfully submitted,



Duane Stecklein, Geologist

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**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

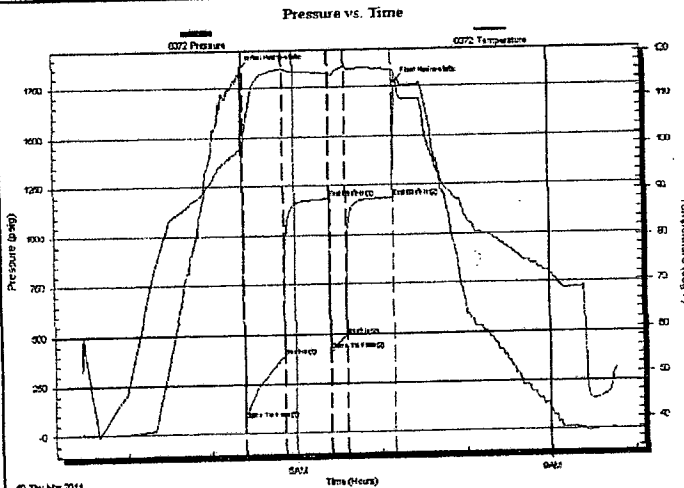
Habit Hasselhorst #1  
 639 280th Ave 12-15-18/Ellis  
 Hays, Ks Job Ticket: 41796 DST#: 1  
 67601 Test Start: 2011.03.10 @ 03:28:17  
 ATTN: Duane Stecklein

## GENERAL INFORMATION:

Formation: Arbuckle  
 Deviated: No Whipstock ft (KB)  
 Time Tool Opened: 05:23:46  
 Time Test Ended: 09:47:16  
 Interval: 3605.00 ft (KB) To 3630.00 ft (KB) (TVD)  
 Total Depth: 3630.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:  
 Test Type: Conventional Bottom Hole  
 Tester: Brian Fairbank  
 Unit No: 41  
 Reference Elevations: 2016.00 ft (KB)  
 2011.00 ft (CF)  
 KB to GR/CF: 5.00 ft

Serial #: 8372 Inside  
 Press@RunDepth: 491.01 psig @ 3607.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2011.03.10 End Date: 2011.03.10 Last Calib.: 2011.03.10  
 Start Time: 03:28:17 End Time: 09:47:16 Time On Btm: 2011.03.10 @ 05:22:46  
 Time Off Btm: 2011.03.10 @ 07:11:16

TEST COMMENT: IFP - BOB 2 min  
 ISI - sur blow back  
 FFP - BOB 4 min  
 FSI - no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1851.18	99.41	Initial Hydro-static
1	67.67	99.89	Open To Flow (1)
29	390.65	116.59	Shut-In (1)
62	1182.59	115.31	End Shut-In (1)
62	419.01	115.18	Open To Flow (2)
73	491.01	116.78	Shut-In (2)
107	1182.76	116.10	End Shut-In (2)
109	1774.66	114.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
495.00	MW 95%W, 5%M	2.68
310.00	SOCMW 5%O, 85%W, 10%M	4.35
185.00	O & MCW 25%O, 50%W, 25%M	2.60
115.00	O & WCM 25%O, 35%W, 40%M	1.61
35.00	FREE OIL	0.49

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

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