

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

8-2-01  
AUG 02 2001

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 5663  
Name: Hess Oil Company  
Address: P.O. Box 1009  
City/State/Zip: McPherson, KS 67460  
Purchaser: \_\_\_\_\_  
Operator Contact Person: Bryan Hess  
Phone: (620) 241-4640  
Contractor: Name: Abercrombie RTD, Inc.  
License: 30684  
Wellsite Geologist: James C. Hess

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>5-24-01</u>	<u>6-4-01</u>	<u>6-4-01</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 033-21220-0000  
County: Comanche  
2005, E2 NE Sec. 21 Twp. 34 S. R. 20  East  West  
1520 feet from S / N (circle one) Line of Section  
660 feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Woolfolk Well #: 1  
Field Name: \_\_\_\_\_  
Producing Formation: \_\_\_\_\_  
Elevation: Ground: 1743' Kelly Bushing: 1748'  
Total Depth: 5240' Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at 672 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 DQA 8/14/01 JB  
(Data must be collected from the Reserve Pit)  
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used evaporation  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

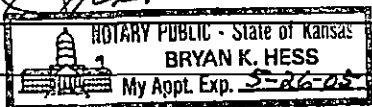
**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information 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: [Signature]  
Title: President Date: 8-1-01

Subscribed and sworn to before me this 1st day of August,  
2001.

Notary Public: [Signature]  
Date Commission Expires: \_\_\_\_\_



**KCC Office Use ONLY**

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

X

Operator Name: Hess Oil Company Lease Name: Woolfolk Well #: 1  
 Sec. 21 Twp. 34 S. R. 20  East  West County: Comanche

**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 <input checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

CASING RECORD <input 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
conductor		30"		80'	grout		
surface	12-1/4"	8-5/8"	23#	672'	65/35 Poz	225	6% gel, 3% cc
				and	Class A	100	2% gel, 3% cc

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

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input 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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

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

Production Interval \_\_\_\_\_

# ALLIED CEMENTING CO., INC. 7573

Federal Tax I.D.# 48-0727860

RECEIVED  
KANSAS CORPORATION COMMISSION  
**ORIGINAL**  
AUG 02 2001

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Med Lodge

DATE <u>5-24-01</u>	SEC <u>21</u>	TWP. <u>34S</u>	RANGE <u>20W</u>	CALLED OUT <u>3:00</u>	ON LOCATION <u>5:00</u>	JOB START <u>9:30</u>	JOB FINISH <u>10:45</u>
LEASE <u>Wood Folk</u>	WELL# <u>#1</u>	LOCATION <u>Protect Park, Ks 9S-1W-34W</u>			COUNTY <u>DMAurche</u>	STATE <u>Ks</u>	

CONSERVATION DIVISION

CONTRACTOR Abercombie Belg

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 5/8 x 2 3/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 27

CEMENT LEFT IN CSG. 27

PERFS.

DISPLACEMENT 4 1/4 bbls

EQUIPMENT

PUMP TRUCK CEMENTER Ladd Storm

# 356-302 HELPER David W.

BULK TRUCK

# 240 DRIVER Dwayne W.

BULK TRUCK

# DRIVER

OWNER Hess Oil Co.

CEMENT

AMOUNT ORDERED 225 65:35:6 + 3% CMC/LA  
+ 4# Flo-Seal 100 sks class A + 3% CMC/LA  
+ 2% Gel

COMMON <u>A 100</u>	@ <u>6.65</u>	<u>665.00</u>
POZMIX	@	
GEL <u>2</u>	@ <u>10.00</u>	<u>20.00</u>
CHLORIDE <u>11</u>	@ <u>30.00</u>	<u>330.00</u>
<u>AKW 225</u>	@ <u>6.30</u>	<u>1417.50</u>
<u>FLO-SEAL 56#</u>	@ <u>1.40</u>	<u>78.40</u>
	@	
	@	
	@	
HANDLING <u>350</u>	@ <u>1.10</u>	<u>385.00</u>
MILEAGE <u>64</u> x <u>350</u>	<u>.04</u>	<u>22.40</u>
TOTAL		<u>3791.90</u>

REMARKS:

Reke Geolator Estroy Min Pumped  
Shut in water - mixed 225 sks Lite  
filled with 100 sks A+3+2. Released  
plug and displaced with 4 1/4 bbls  
freshwater. Final lift 350#  
Ramp plug to 300 shut plug  
continues into circulation cement  
to surface

SERVICE

DEPTH OF JOB <u>675'</u>		
PUMP TRUCK CHARGE		<u>520.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>64</u>	@ <u>3.00</u>	<u>192.00</u>
PLUG <u>1-858 TRP.</u>	@ <u>100.00</u>	<u>100.00</u>
	@	
	@	
TOTAL		<u>812.00</u>

CHARGE TO: Hess Oil Co.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

FLOAT EQUIPMENT

<u>1-858 Baffle Plate</u>	@ <u>45.00</u>	<u>45.00</u>
<u>1-858 Sacked</u>	@ <u>180.00</u>	<u>180.00</u>
<u>2-858 Chest.</u>	@ <u>55.00</u>	<u>110.00</u>
	@	
	@	
TOTAL		<u>335.00</u>

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX \_\_\_\_\_

TOTAL CHARGE 4938.90

DISCOUNT 493.89 IF PAID IN 30 DAYS

Arnold Hess 4445-01

PRINTED NAME

SIGNATURE Arnold Hess

P.O. BOX 1009  
 McPHERSON, KANSAS 67460-1009  
 (620) 241-4640

ACO-1 Completion Form Attachment

Woolfolk #1  
 200' S, E2 NE Section 21-34-20W  
 Comanche County, Kansas

	Sample Tops	Datum
Heebner	4114'	-2366'
Douglas	4158'	-2410'
Lansing	4330'	-2582'
Stark Shale	4753'	-3005'
Swope	4779'	-3031'
Marmaton	4892'	-3144'
Novinger	4941'	-3193'
Pawnee	4990'	-3242'
Ft. Scott	5029'	-3281'
Cher. Shale	5047'	-3299'
Mississippi	5136'	-3388'
RTD	5240'	-3492'

REC'D  
 KANSAS CORPORATION

AUG 02 2001

CONSERVATION DIVISION

DST #1: 4920'-5015'. Missrun - hit bridge 16 stands in hole

DST #2: 4920'-5015', Novinger, Pawnee. 30-45-45-45. IF: Fair blow built to b.o.b. in 15 min. ISI: Bled down for 10 min. no blow back. FF: Fair blow built to 12" in bucket. FSI: Bled down for 5 min. very slight surface blow back. Rec. 250' gas in pipe, 120' MCGW (5%G, 35%W, 60%M), 380' SGCMW (3%G, 82%W, 15%M). IH 2470#, IF 51-161#, ISI 1829#, FF 171-214#, FSI 1779#, FH 2369#

DST #3: 5080'-5190', Mississippi. 30-45-30-45. IF: Strong blow b.o.b. in 80 sec. GTS in 14 min. ISI: Bled down for 10 min. no blow back. FF: Strong blow b.o.b. in 10 sec. FSI: Bled down for 10 min. no blow back. Rec. 4830' gas in pipe, 250' SGCM (10% G, 90% M). IH 2524#, IF 74-78#, ISI 1299#, FF 64-93#, FSI 1085#, FH 2480#



# HESS OIL COMPANY

225 N. Market, Suite 300  
Wichita, Kansas 67202

(316) 263-2243

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Woolfolk #1  
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DOUGLAS (cont. )

4215-21' KB White, very finely crystalline, dense, limestone. Slight show of free oil in poor intercrystalline porosity, no odor, light stain, fair cut. (4 pc's in tray)

4286-92' KB White, very finely crystalline, dense, limestone. Very slight show of free oil in very poor intercrystalline porosity, no odor, very light stain, weak cut, fair fluorescence.

LANSING 4330 (-2582)

STARK SHALE 4753 (-3005)

SWOPE 4779 (-3031)

4821-30' KB Tan, very finely crystalline, dense, limestone. Slight show of free oil in very poor intercrystalline porosity, no odor, fair fluorescence, very weak cut.

MARMATON 4892 (-3144)

4892-98' KB Cream, finely crystalline, dense, limestone. Slight show of free oil in very poor intercrystalline porosity, no odor, weak light stain, and a weak cut. "tight"

NOVINGER 4941 (-3193)

4945-53' KB White, very fine to finely crystalline, dense, limestone. Weak show of free oil in poor intercrystalline porosity, no odor, fair fluorescence, fair cut, weak light stain. (few gas bubbles)

PAWNEE 4990 (-3242)

4997-5003' KB White to cream, very finely crystalline, dense, limestone. Slight show of free oil in very poor intercrystalline porosity, no odor, slight stain, very little fluorescence, and a very weak cut.

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Woolfolk #1  
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## PAWNEE (cont. )

Drill Stem Test #1 4920' to 5015' KB 95' Anchor

Misrun --- hit bridge @ 972' KB on way in with tools.

Drill Stem Test #2 4920' to 5015' KB 95' Anchor

Blow: Bottom of bucket in 15 min., 2nd opening ---  
slow build to 12".

Times: Open 30, Closed 45, Open 45, Closed 45.

Recovered: 250' Gas  
500' Gas & mud cut SW (5% Gas, 45% SW, 50% M)

Pressures: IH 2470# IF 51 - 161# ISIP 1829#  
FH 2369# FF 171 - 214# FSIP 1779#

FORT SCOTT 5029 (-3281)

CHEROKEE SHALE 5047 (-3299)

MISSISSIPPI 5136 (-3388)

5158-77' KB

White, very finely crystalline, oolitic, limestone w/small sized oolites. Slight shows of free oil in poor intercrystalline porosity, no odor, slight stain, no fluorescence, and a fair cut.

Drill Stem Test #3 5080' to 5190' KB 110' Anchor

Blow: Bottom of bucket in 80 sec. Gas to surface in 14 Min. Tested 26 MCF/d throughout 2nd opening.

Times: Open 30, Closed 45, Open 30, Closed 45.

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Woolfolk #1  
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## MISSISSIPPI

Drill Stem Test #3 (cont. )

Recovered: 250' slightly Gas cut Mud (10% Gas, 90% M)

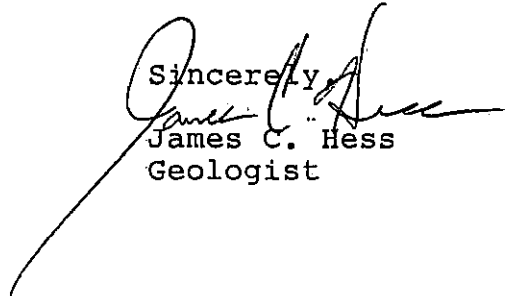
Pressures:	IH 2524#	IF 74 - 77#	ISIP 1299#
	FH 2480#	FF 64-93#	FSIP 1085#

ROTARY TOTAL DEPTH                      5240                      (-3492)

Another 50' of hole was cut after DST #3, however no significant shows or drilling breaks were encountered. Since we were running low to a dry hole tested to the Arbuckle  $\frac{1}{2}$  mile away, it was decided to drill passed the Mississippi gas pays.

All three of the best chances for production were tested through DST's #2 & #3. In review of the quality & experience of the well site geologist, it was decided that logging the well would be a waste of money & time. The Woolfolk #1 was plugged according to Kansas state regulations on 6-4-01.

Sincerely,

  
James C. Hess  
Geologist