

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

RECEIVED  
JUL 10 2002  
KCC WICHITA  
07-10-02  
ORIGINAL

Operator: License # 5663  
Name: Hess Oil Company  
Address: P. O. Box 1009  
City/State/Zip: McPherson, KS 67460  
Purchaser: Duke Energy  
Operator Contact Person: Bryan Hess  
Phone: (620) 241-4640  
Contractor: Name: Mallard JV, Inc.  
License: 4958  
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. \_\_\_\_\_  
2/12/02 2/21/02 3/20/02  
Spud Date or Date Reached TD Completion Date or Recompletion Date

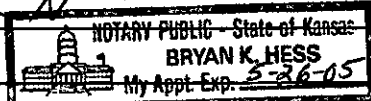
API No. 15 - 033-21303-0000  
County: Comanche  
Ad. S2 N2 N2 Sec. 19 Twp. 33 S. R. 19  East  West  
780 feet from N (circle one) Line of Section  
2650 feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Baker Farms Well #: 2  
Field Name: Collier Flats  
Producing Formation: Mississippi  
Elevation: Ground: 2023' Kelly Bushing: 2028'  
Total Depth: 5440' Plug Back Total Depth: 5377'  
Amount of Surface Pipe Set and Cemented at 803 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 See 1 SH 7-29-02  
(Data must be collected from the Reserve Pit)  
9,000 Chloride content ppm Fluid volume 600 bbls  
Dewatering method used transfer  
Location of fluid disposal if hauled offsite:  
Operator Name: Star Resources  
Lease Name: Currier License No.: 32389  
Quarter E2 Sec. 20 Twp. 32 S. R. 18 East West  
County: Comanche Docket No.: D-27668

**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: Dick Hess  
Title: Dick Hess, Pres. Date: 7-9-02  
Subscribed and sworn to before me this 9th day of July, 2002  
Notary Public: Bryan K. Hess  
Date Commission Expires: \_\_\_\_\_  


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

X

Operator Name: Hess Oil Company Lease Name: Baker Farms Well #: 2  
 Sec. 19 Twp. 33 S. R. 19 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 No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes No  Cores Taken Yes <input checked="" type="checkbox"/> No  Electric Log Run <input checked="" type="checkbox"/> Yes No <i>(Submit Copy)</i>  List All E. Logs Run:  Neutron/Density Porosity Radiation Guard	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%; border-bottom: 1px solid black;">Log</td> <td style="width:55%; border-bottom: 1px solid black;">Formation (Top), Depth and Datum</td> <td style="width:30%; border-bottom: 1px solid black;">Sample</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Name</td> <td style="border-bottom: 1px solid black;">Top</td> <td style="border-bottom: 1px solid black;">Datum</td> </tr> </table>	Log	Formation (Top), Depth and Datum	Sample	Name	Top	Datum
Log	Formation (Top), Depth and Datum	Sample					
Name	Top	Datum					

CASING RECORD <input checked="" 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
Conductor	17-1/2"	13-3/8"	48#	91'	Class A	100	2% gel, 3% cc
Surface	12-1/4"	8-5/8"	23#	803'	65/35 & CI A	325	2% gel, 3% cc
Production	7-7/8"	4-1/2"	10.5#	5436'	Common	100	

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
3	5300'-5302'	2000 gal. 15% NE FE acid	
3	5356'-5360'	1500 gal. 15% NE FE acid & 3500 gal. 70% nitrogen, then 2000 gal. 15% gelled acid &	
		5000 gal. 70% nitro., then 1000 gal. 15% NE FE acid	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8"	5226'		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Date of First, Resumed Production, SWD or Enhr. 5-29-02	Producing Method	Flowing <input type="checkbox"/>	X Pumping	Gas Lift <input type="checkbox"/>	Other (Explain)
Estimated Production Per 24 Hours	Oil 0 Bbls.	Gas 130 Mcf	Water 33 Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas  Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled 5300'-5360'  
*(If vented, Sumit ACO-18.)*  Other (Specify) \_\_\_\_\_

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

ACO-1 Completion Form Attachment

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**Baker Farms #2**  
**Approx. S/2 N/2 N/2 Section 19-33-19W**  
**Comanche County, Kansas**

Sample Tops:

<u>FORMATION</u>	<u>TOP</u>	<u>DATUM</u>
Heebner	4349'	(-2321')
Lansing	4549'	(-2521')
Muncie Creek Shale	4775'	(-2747')
Stark Shale	4919'	(-2891')
Hushpuckney	4970'	(-2942')
Base Kansas City	5044'	(-3016')
Marmaton	5068'	(-3040')
Novinger	5115'	(-3087')
Pawnee	5153'	(-3125')
Fort Scott	5194'	(-3166')
Cherokee Shale	5209'	(-3181')
Mississippi St Louis	5321'	(-3293')
RTD	5440'	(-3412')

DST #1: 5030'-5190'. 20-45-45-60. IF - strong blow, bottom of bucket in 15 min.; FF - blow 8" in bucket. Rec: 120' slight gas cut mud with oil stains; 150' slight gas cut mud. Pressures: IH 2649#, IF 100-101#, ISI 1610#, FF 170-171#, FSI 1536#, FH 2496#

DST #2: 5240'-5320'. 30-60-60-90. IF - strong blow, bottom of bucket in 2 min.; FF - strong blow, GTS in 7 min. 24.5 MCF/D. Rec: 190' gas cut mud. Pressures: IH 2650#, IF 91-88#, ISI 1530#, FF 105-105#, FSI 1488#, FH 2499#

DST #3: 5324'-5440'. 30-45-60-60. IF - strong blow, bottom of bucket in 1 min.; FF - strong blow, GTS in 10 min. 23 MCF/D. Rec: 300' gas cut mud. Pressures: IH 2436#, IF 92-87#, ISI 1511#, FF 114-111#, FSI 1467#, FH 2552#

AK  
 BH 7.29.02







**TREATMENT REPORT**

ORIGINAL  
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JUL 10 2002  
KOO WICHITA

Customer ID	Date
Customer <b>HESS OIL CO.</b>	<b>2-22-02</b>
Lease <b>BAKER FARMS</b>	Lease No.
	Well # <b>2</b>

Field Order # <b>4541</b>	Station <b>PRATT</b>	Casing <b>4 1/2</b>	Depth <b>5441</b>	County <b>COMANCHE</b>	State <b>KS</b>
Type Job <b>4 1/2 LONG STRING</b>	NEW WELL		Formation	Legal Description <b>19-335-1961</b>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>4 1/2</b>	Tubing Size	Shots/Ft		<b>700 SKI AA-2</b>		RATE	PRESS	ISIP
Depth <b>5441</b>	Depth	From	To	Pre Pad <b>15 1/2 GAL 1.43 ST 3</b>	Max		5 Min.	
Volume	Volume	From	To	Pad <b>25 SKI 60/40 PZ</b>	Min		10 Min.	
Max Press	Max Press	From	To	Frp <b>R. &amp; M HOLES</b>	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <b>SATNB HESS</b>	Station Manager <b>D. AUSTRY</b>	Treater <b>T. SEBA</b>
--	-------------------------------------	---------------------------

Service Units	<b>WB</b>	<b>26</b>	<b>36</b>	<b>75</b>
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:30					CALLED OUT
6:00					ON LOC W/ TRK'S & SAFETY PROG
					RUN 128 JT'S 4 1/2 10.5' CSG
					QUANT. SHOE & ISPV 1ST CNT ON STS 1-2-3-4-5
10:00					CSG ON BOTTOM & DROP BALL
10:07					Hack up TO CSG & BREAK COIL W/ TRG
10:34					START PUMPING
	400		5	6	H2O SPACE
			12		MUD FLUSH
			5		H2O SPACE
10:50			25.46		START MIX & PUMP 100 SKI AA-2 @ 15 1/2 GAL
			10		FINISHED MIX
					SHUT DOWN CLEAR PUMP & LINES
					RELEASE PLUG
10:52	100			8	START DEEP
	600		75	6	LIFT CNT
11:04	1000		87	4	PLUG DOWN
11:05					RELEASE & HOLD
11:10					PLUG R. & M HOLES 25 SKI 60/40 PZ
					JOB COMPLETE
					THANKS TO 22



ORIGINAL

**SALES OFFICE:**  
 105 S. Broadway  
 Suite #420  
 Wichita KS 67202  
 (316) 262-3699  
 (316) 262-5799 FAX

**SALES & SERVICE OFFICE:**  
 10244 NE Hiway 61  
 P.O. Box 8613  
 Pratt, KS 67124-8613  
 (316) 672-1201  
 (316) 672-5383 FAX

ACIDIZING - FRACTURING - CEMENTING

Invoice

<b>Bill to:</b>		3575042	<b>Invoice</b>	<b>Invoice Date</b>	<b>Order</b>	<b>Order Date</b>
HESS OIL COMPANY 225 N MARKET #300 WICHITA, KS 67202			202045	2/26/02	4541	2/22/02
<b>Service Description</b>						
Cement						
<b>Lease</b>					<b>Well</b>	
Baker Farms					2	
<b>AFE</b>	<b>CustomerRep</b>	<b>Treater</b>	<b>Well Type</b>	<b>Purchase Order</b>	<b>Terms</b>	
	Jamie Hess	T. Seba.	New Well		Net 30	

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2915  
 MAR 8 PAID

ID.	Description	UOM	Quantity	Unit Price	Price
D205	AA2 (COMMON)	SK	100	\$13.06	\$1,306.00
D203	60/40 POZ (COMMON)	SK	25	\$7.75	\$193.75
C192	FLA-1, FLUID LOSS	LB	47	\$3.20	\$150.40
C322	GILSONITE	LB	470	\$0.55	\$258.50
C223	SALT (Fine)	LBS	508	\$0.35	\$177.80
F160	GUIDE SHOE-REGULAR, 4 1/2"	EA	1	\$125.00	\$125.00
F200	FLAPPER TYPE INSERT FLOAT VALVES, 4 1/2"	EA	1	\$150.00	\$150.00
F130	TOP RUBBER CEMENT PLUG, 4 1/2"	EA	1	\$55.00	\$55.00
F100	CENTRALIZER, 4 1/2"	EA	5	\$67.00	\$335.00
C302	MUD FLUSH	GAL	500	\$0.75	\$375.00
E107	CEMENT SERVICE CHARGE	SK	125	\$1.50	\$187.50
E100	HEAVY VEHICLE MILEAGE - 1 WAY	MI	60	\$3.00	\$180.00
E104	PROPPANT / BULK DELIV SERVICES/TON MILE, \$200 MIN	TM	348	\$1.25	\$435.00
R211	CASING CEMENT PUMPER, 5001-5500'	EA	1	\$1,850.00	\$1,850.00

**Sub Total:** \$5,778.95

**Discount:** \$2,022.63

**Discount Sub Total:** \$3,756.32

**Tax Rate:** 5.90%

**Taxes:** \$0.00

(T) Taxable Item

**Total:** \$3,756.32

PLEASE REMIT TO Acid Services, LLC, Dept No 1131, Tulsa, OK 74182

Accounts become past due the last day of the month following billing. Interest rate 1.5% per month (18% per year) on past due accounts.

ORIGINAL

# HESS OIL COMPANY

225 N. Market, Suite 300  
Wichita, Kansas 67202

(316) 263-2243

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KOC WICHITA

## GEOLOGICAL REPORT

### BAKER FARMS #2

800' FNL, 2500' FWL of

SECTION 19 - 33S - 19W

COMANCHE COUNTY, KANSAS

Commenced: 2-12-02

Elevations: est. 2023' GR  
2028' KB

Completed: 2-22-02

Surface Pipe: 8-5/8" @ 803' KB

Contractor: Mallard J.V.

Production Pipe: 4-1/2"

One foot drilling time was kept from 4000' to rotary total depth. Ten foot drilling samples (wet & Dry) were kept from 4300' to rotary total depth.

Following are sample tops, descriptions of zones of interest (including all shows of oil & gas), and the results of all drill stem tests.

HEEBNER

4349 (-2321)

LANSING

4549 (-2521)



# HESS OIL COMPANY

225 N. Market, Suite 300  
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Baker Farms #2  
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<u>MUNCIE CREEK SHALE</u>	<u>4775</u>	<u>(-2747)</u>
<u>STARK SHALE</u>	<u>4919</u>	<u>(-2891)</u>
<u>HUSHPUCKNEY</u>	<u>4970</u>	<u>(-2942)</u>
<u>BASE KANSAS CITY</u>	<u>5044</u>	<u>(-3016)</u>
<u>MARMATON</u>	<u>5068</u>	<u>(-3040)</u>
<u>NOVINGER</u>	<u>5115</u>	<u>(-3087)</u>

5119-25' KB

Tan, very finely crystalline, dense, limestone. Very slight show of free oil in very poor intercrystalline porosity, no odor, slight stain, and oil fluorescence. (few gas bubbles!)

PAWNEE

5153 (-3125)

5161-66' KB

White, very finely crystalline, dense, limestone. Slight show of free oil & gas bubbles in poor intercrystalline porosity, no odor, slight stain, and fair oil fluor.

5167-72' KB

Cream, finely crystalline, dense, limestone. Weak show of free oil & gas bubbles in poor intercrystalline porosity, no odor, some light stain, and fair oil fluor.

DRILL STEM TEST #1

5030' to 5190' KB 160' Anchor

Blow: Bottom of bucket in 15 min., 2nd opening ---  
8" blow max.

Times: Open 20, Closed 45, Open 45, Closed 60.

Recovered: 500' gas  
270' slightly gas cut mud w/oil spots.

Pressures: IH 2670# IF 117 - 129# ISIP 1626#  
FH 2575# FF 200 - 200# FSIP 1553#

# HESS OIL COMPANY

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Baker Farms #2  
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FORT SCOTT

5194 (-3166)

CHEROKEE SHALE

5209 (-3181)

5292-98' KB

Cream to grey, finely crystalline, dense, limestone. Weak show of free oil in poor intercrystalline porosity, no odor, slight stain, and weak fluorescence.

5304-08' KB

Cream to tan, very finely crystalline, dense, limestone. Fair show of free oil in poor intercrystalline porosity and chert, weak odor, light stain, and good oil fluor. Some gas bubbles!

5311-17' KB

Detrital Zone. White to tan, very finely crystalline, dense, limestone and white to tan trip. chert. Good show of free oil in poor intercrystalline porosity & some poor "on-edge" porosity, fair odor, some light stain, and lots of good oil fluor. Some gas bubbles!

MISSISSIPPI ST. LOUIS

5321 (-3293)

DRILL STEM TEST #2

5240' to 5320' KB 80' Anchor

Blow: Steady @ 24.5 MCF/d

Times: Open 30, Closed 60, Open 60, Closed 90.

Recovered: 190' gas cut mud

Pressures: IH 2811# IF 93 - 93# ISIP 1543#  
FH 2657# FF 117 - 117# FSIP 1502#

5352-58' KB

Brown, finely crystalline, dense, dolomite. Slight show of free oil in very poor intercrystalline porosity, no odor, slight stain, and slight oil fluor.

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Baker Farms #2  
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MISSISSIPPI ST. LOUIS (cont. )

5360-67' KB

Cream to grey, finely crystalline, dense, dolomitic, limestone. Weak show of free oil in poor intercrystalline porosity, no odor, weak light stain, and a weak oil fluor.

5378-82' KB

Light grey, finely crystalline, limestone. Fair show of free oil in poor intercrystalline porosity, weak odor, fair stain, and a good oil fluor.

5392-99' KB

Cream to light grey, very fine to finely crystalline, dense, limestone. Slight shows of free oil in poor intercrystalline porosity, no odor, slight stain, and slight oil fluor.

5418-22' KB

Cream to tan, medium crystalline, dense, dolomite. Fair show of free oil in poor to fair intercrystalline porosity, no odor, weak stain, and fair oil fluor.

ROTARY TOTAL DEPTH

5440 (-3412)

DRILL STEM TEST #3

5324' to 5440' KB 116' Anchor

Blow: GTS second opening, 23 MCF/d down to TSTM.

Times: Open 30, Closed 45, Open 60, Closed 60.

Recovered: 300' gas cut mud

Pressures:	IH 2832#	IF 129 - 117#	ISIP 1553#
	FH 2668#	FF 140 - 152#	FSIP 1491#

It was decided to run a Neutron Density, porosity and Radiation Guard log. 4 1/2" 10.5# New casing was then run to produce the detrital zone on top of the Miss. Casing was cemented @ 5436' KB w/100 sx EA II cement on 2-22-02.

Sincerely,

James C. Hess  
Geologist