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KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form AGO-1  
September 1999  
Form Must Be Typed

JUN 04 2003

WELL COMPLETION FORM

KCC WICHITA HISTORY - DESCRIPTION OF WELL & LEASE

**CONFIDENTIAL**

5663

Hess Oil Company

Address: P. O. Box 1009 **Approx**

City/State/Zip: McPherson, KS 67460

Purchaser: NCRA

Operator Contact Person: Bryan Hess

Phone: (620) 241-4640

Contractor Name: Mallard JV, Inc. **KCC**

License: 4958 **JUN 03 2003**

Wellbore Designation: Kurt Smith

Designate Type or Completion: **CONFIDENTIAL**

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: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to Enh./SWD

Plug Back \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_

Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_

Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_

Other (SWD or Enh.?) \_\_\_\_\_ Docket No. \_\_\_\_\_

3/1/03 **2-B-03** 3/24/03  
**2/8/03**

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 135-24210-0000

County: Ness

E2 NE NE SE Sec. 20 Twp. 17 S. R. 22  East  West

2220 feet from  S  N (circle one) Line of Section

120 feet from  E  W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE  SE NW SW

Lease Name: Irma Well #: 1

Field Name: \_\_\_\_\_

Producing Formation: Cherokee Sand

Elevation: Ground: 2274' Kelly Bushing: 2279'

Total Depth: 4400' Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 263 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 1548 Feet

If Alternate II completion, cement circulated from 1548 feet depth to surface w/ 200 sk cmnt

Drilling Fluid Management Plan **ACT II WITH**  
(Data must be collected from the Reserve Pit) **2-13-07**

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.

The 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

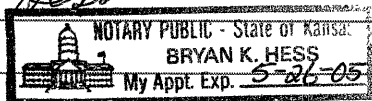
Title: Dick Hess, President Date: 6/3/03

Subscribed and sworn to before me this 3rd day of June, 2003

19 \_\_\_\_\_

Notary Public: Bryan K. Hess

Date Expires or Expires \_\_\_\_\_



**KCC Office Use ONLY**

Letter of Confidentiality Attached

If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

Operator Name: Hess Oil Company Lease Name: Irma Well #: 1  
 Sec. 20 Twp. 17 S. R. 22  East  West County: Ness

**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 (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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy)  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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**Sonic, Compensated Density/Neutron, Dual Induction**

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
Surface	12-1/4	8-5/8	23	263'	Common	175	2% gel, 3% cc
Production	7-7/8	5-1/2	14	4370'	EA-2	150	1/4# floseal/sk
				and	SMD	200	1/4# floseal/sk

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	4272'-4280'		

TUBING RECORD		Size <u>2-7/8"</u>	Set At <u>4218'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumered Production, SWD or Enhn. <u>3-24-03</u>		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls. <u>39</u>	Gas Mcf <u>0</u>	Water Bbls. <u>2</u>	Gas-Oil Ratio	Gravity <u>42</u>

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

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Conmingled

Production Interval: 4272'-4280'

Other (Specify) \_\_\_\_\_

# HESS OIL COMPANY

**CONFIDENTIAL**

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

## ACO-1 Completion Form Attachment

**Irma #1**

**Approx. E2 NE NE SE, Section 20-17-22W**

**Ness County, Kansas**

Elevation: 2279' KB

**KCC**

**JUN 03 2003**

<u>FORMATION</u>	<u>LOG TOP</u>	<u>DATUM</u>
Anhydrite	1551'	(+728')
Heebner	3684'	(-1405') (sample)
LKC	3720'	(-1441')
Pawnee	4082'	(-1803')
Fort Scott	4192'	(-1913')
Cherokee Shale	4209'	(-1930')
Cherokee "F" Sand	4272'	(-1993')
Mississippi	4321'	(-2042')
RTD	4400'	(-2121')
LTD	4399'	(-2120')

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DST #1: Depth: 4265'-4285'. Times: 15-30-15-60. Blows: First open - BOB in 8 min, bled off for 2 min, return blow in ½ min, built to 1½"; Second open - BOB in 5 min, bled off for 2 min, return blow in ½ min, built to 4". Recoveries: 285' GIP; 180' GOCM (10% gas, 20% oil, 70% mud); 60' GMCO (15% gas, 40% mud, 45% oil); 315' CGO (20% gas, 80%oil). Pressures: IH 2218#, IF 32-147#, ISI 984#, FF 156-222#, FSI 983#, FH 1988#

**SWIFT SERVICES, INC.**

PO BOX 466

NESS CITY, 67560-0466

RECEIVED

JUN 04 2003

KCC WICHITA

**Invoice**

DATE	INVOICE #
3/8/03	5397

BILL TO
Hess Oil Company PO Box 1009 McPherson, KS 67460-1009

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**KCC**  
JUN 03 2003  
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TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Operator	Job Purpose
Net 30	# 1	Irma	Ness	Mallard Drlg Co	Oil	Development	Ted	Longstring
PRICE REFERE...	DESCRIPTION				QTY	UNIT PRICE	AMOUNT	
575D	Milage				15	2.50	37.50	
579D	Pump Charge - Two-Stage				1	1,500.00	1,500.00	
281	Mud Flush				500	0.60	300.00T	
221	Liquid KCL				4	19.00	76.00T	
407-5	5 1/2" Insert Float Shoe with Auto Fill				1	200.00	200.00T	
409-5	Flurd Master Centralizers				5	54.00	270.00T	
402-5	5 1/2" Centralizers				1	44.00	44.00T	
403-5	5 1/2" Cement Basket				1	125.00	125.00T	
408-5	5 1/2" D.V. Tool & Plug Set				1	2,150.00	2,150.00T	
325	Cement				150	7.00	1,050.00T	
284	Calseal				7	25.00	175.00T	
283	Salt				750	0.15	112.50T	
286	Halad-1				71	5.25	372.75T	
276	Flocele				38	0.90	34.20T	
330	Swift Multi-Density				200	9.75	1,950.00T	
276	Flocele				50	0.90	45.00T	
581D	Service Charge Cement				350	1.00	350.00	
583D	Drayage				267.38	0.85	227.27	
	Subtotal						9,019.22	
	Sales Tax					5.30%	365.94	

5096  
APR 7 PAID

**Thank you for your business.**

**Total**

**\$9,385.16**

JOB LOG

SWIFT Services, Inc.

DATE 3-8-03 PAGE NO. #1

CUSTOMER Hess Oil Co WELL NO. #1 LEASE Irma JOB TYPE Two-stage Long string TICKET NO. 5397

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	00:00							Called out
	01:00							On location w/ Float equip. had Rig laying down rat hole
	01:50							Start csg in hole Trks on Location
	03:30							Csg on bottom
	03:35							Dropped ball
	03:40							Started circulating D.V. at 1550 ft
								Centralizer on 1,2,3,4,5, & Cement Basket on 6,3
	04:00							Done circulating
	04:06	4	12					Run 500 gal Mad flush
	04:09	5	20					20 bbl KCL flush
	04:13		0					150 sks EA2 Cement
	04:20	5	36					Done mixing cement
	04:25							Dropped Plug & Washout Lines
	04:28							Started displacement
	04:45	6 1/2	106					Done w/ displacement
	04:45							Landed plug at 1200 PSI
	04:48							Release pressure - Float held
	04:50							Dropped bomb
	05:05							Opened D.V. at 1150 PSI
	05:05							Started circulating plug rat hole
	08:50							Circulate 4 hrs plug rat hole
	09:20	6 1/2	20					Run 20 bbl KCL flush
	09:20							200 sks SMA cement w/ 4 1/2 lbs
	09:20	6	111					Done mixing cement
	09:25							Released plug
	09:23							Started displacement
	09:30	5	37					Done w/ displacement
	09:30							Landed plug at 1500 PSI
	09:35							Released Pressure
	09:40							D.V. Closed
	09:40							Cement did circ approx 50%
	09:50							washed up
	09:50							Racked up ToFuchs
	10:00							Job complete

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# ALLIED CEMENTING CO., INC.

6044

Federal Tax I.D.#

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

SERVICE POINT:  
Ness City

DATE <u>03-01-03</u>	SEC. <u>20</u>	TWP. <u>19s</u>	RANGE <u>22w</u>	CALLED OUT <u>1:37PM</u>	ON LOCATION <u>4:20PM</u>	JOB START <u>7:30AM</u>	JOB FINISH <u>8:00PM</u>
LEASE <u>TPMA</u>			WELL # <u>1</u>	LOCATION <u>BAZINE HWTN</u>		COUNTY <u>NESS</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR <u>MALLARD DELG.</u>	OWNER <u>NORTHERN LIGHTS</u>
TYPE OF JOB <u>SURFACE JOB</u>	
HOLE SIZE <u>12 1/4"</u>	T.D. <u>263'</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX <u>250#</u>	MINIMUM <u>150#</u>
MEAS. LINE	SHOE JOINT <u>20'</u>
CEMENT LEFT IN CSG. <u>20'</u>	
PERFS.	
DISPLACEMENT <u>15.5 BLS</u>	

EQUIPMENT		
PUMP TRUCK	CEMENTER <u>BOB</u>	
# <u>224</u>	HELPER <u>JIM W</u>	
BULK TRUCK		
# <u>341</u>	DRIVER <u>STEDET</u>	
BULK TRUCK		
#	DRIVER	

COMMON	<u>175.04</u>	@ <u>6.05</u>	<u>1163.75</u>
POZMIX.		@	
GEL	<u>3.04</u>	@ <u>10.00</u>	<u>30.00</u>
CHLORIDE	<u>S 04</u>	@ <u>30.00</u>	<u>150.00</u>
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>183.04</u>	@ <u>1.10</u>	<u>201.30</u>
MILEAGE	<u>183.04</u>	<u>04 15</u>	<u>109.80</u>
			TOTAL <u>1654.85</u>

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JUN 03 2003

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REMARKS:

RAN 8 5/8" CSG TO 263 FT BAZAR  
CIRC W KIG MARKED 175.04 COMMON  
30.00 200 GEL + DISPLACED PLUG  
TO 243' W 15.5 BLS  
CEMENT CIRCULATED - W/ NO CELLAL  
SUGGEST 15 MORE BLS

SERVICE	
DEPTH OF JOB	<u>263'</u>
PUMP TRUCK CHARGE	<u>520.00</u>
EXTRA FOOTAGE	@
MILEAGE	<u>15</u> @ <u>3.00</u> <u>45.00</u>
PLUG	<u>1 TOP 8 5/8" W.</u> @ <u>45.00</u> <u>45.00</u>
	@
	@
TOTAL <u>610.00</u>	

CHARGE TO: NORTHERN LIGHTS OIL CO. LC  
 STREET P.O. BOX 164  
 CITY ANDOVER STATE KS ZIP 67002

FLOAT EQUIPMENT	
	@
	@
	@
	@
	@
	@
TOTAL <u>610.00</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.

SIGNATURE Landon R Upton

TAX \_\_\_\_\_  
 TOTAL CHARGE 2264.85  
 DISCOUNT 226.49 IF PAID IN 30 DAYS  
N 2038.36

PRINTED NAME