

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 # 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: Murfin Drilling Company, Inc.
License: 30606
Wellsite Geologist: James C. Hess

Designate Type of Completion:

☒ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ SWD ☐ SIOW ☐ 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. _____

2-26-04 3-4-04 3-5-04
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 135-24266-00-00
County: Ness
App. N2 S2 NW Sec. 34 Twp. 16 S. R. 23 ☐ East ☒ West
1710 feet from S / N (circle one) Line of Section
1180 feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW SW
Lease Name: Kim Well #: 1

Field Name: _____

Producing Formation: _____

Elevation: Ground: 2471' Kelly Bushing: 2476'

Total Depth: 4570' Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at 217 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#2 R4A KGR 5/30/07
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

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: Dick Hess

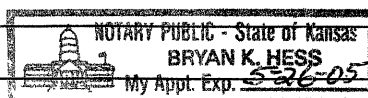
Title: Dick Hess, President Date: 4-1-04

Subscribed and sworn to before me this 1st day of April, 2004

20 _____

Notary Public: Bryan K. Hess

Date Commission Expires: _____



KCC Office Use ONLY

ND Letter of Confidentiality Attached

If Denied, Yes ☐ Date: _____

_____ Wireline Log Received

_____ Geologist Report Received

_____ UIC Distribution

Operator Name: Hess Oil Company Lease Name: Kim Well #: 1
 Sec. 34 Twp. 16 S. R. 23 ☐ 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 ☒ Yes ☐ No
 (Attach Additional Sheets)

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run ☒ Yes ☐ No
 (Submit Copy)

List All E. Logs Run:

Dual Compensated Porosity, Dual Induction,
 Microresistivity, Borehole Compensated Sonic

☐ Log Formation (Top), Depth and Datum ☐ Sample
 Name Top Datum

CASING RECORD ☒ New ☐ 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	217	common	117	3% cc, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ 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 ☐ Yes ☐ No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ 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, Submit ACO-18.) METHOD OF COMPLETION ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled ☐ Other (Specify) _____ Production Interval _____

HESS OIL COMPANY

ORIGINAL

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

ACO-1 Completion Form Attachment

RECEIVED

APR 05 2004

KCC WICHITA

Kim #3

Approx. N/2 S/2 NW, Section 34-16-23W

Ness County, Kansas

Elevation: 2476' KB

<u>FORMATION</u>	<u>LOG TOP</u>	<u>DATUM</u>
Anhydrite	1809'	(+667') sample
Base Anhydrite	1844'	(+632')
Heebner	3876'	(-1400')
Toronto	3894'	(-1418')
Lansing	3911'	(-1435')
Base KC	4194'	(-1718')
Pawnee	4298'	(-1822')
Fort Scott	4388'	(-1912')
Cherokee Shale	4412'	(-1936')
Cherokee Sand	4486'	(-2010')
Mississippian	4531'	(-2055')
RTD/LTD	4570'	(-2094')

DST #1: Depth: 4410' - 4479'. Times: 30-30-0-0. Blows: IF - weak surface blow, died in 12 min, shut in for 30 min, pulled tool. Recoveries: 5' mud w/oil spots in tool. Pressures: IH 2199#, IF 21-25#, ISI 138#, FF -, FSI -, FH -

DST #2: Depth: 4410' - 4492'. Times: 30-45-60-45. Blows: IF - weak blow, built to 4", no blow back; FF - weak blow, built to 1-1/2", no blow back. Recoveries: 185' mud w/oil spots. Pressures: IH 2228#, IF 27-84#, ISI 1211#, FF 85-101#, FSI 1153#, FH 2084#

DST #3: Depth: 4410' - 4500'. Times: 30-30-0-0. Blows: IF - good blow, BOB in 7 min, no blow back. Recoveries: 546' muddy water. Pressures: IH 2234#, IF 49-270#, ISI 1205#, FF -, FSI -, FH 2092#

ALLIED CEMENTING CO., INC. 14906

ORIGINAL

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

SERVICE POINT:

Hess City

DATE <u>2-26-04</u>	SEC <u>34</u>	TWP <u>16</u>	RANGE <u>23W</u>	CALLED OUT <u>5:00 pm</u>	ON LOCATION <u>7:00 pm</u>	JOB START <u>9:15 pm</u>	JOB FINISH <u>9:45 pm</u>
LEASE <u>Kim</u>	WELL # <u>#1</u>	LOCATION <u>Hess City - 10 North</u>			COUNTY <u>Hess</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)			<u>2 East - 1/2 north - East into</u>				

CONTRACTOR Martin Dalg OWNER Hess Oil Co.

TYPE OF JOB Surface Pipe

HOLE SIZE 12 1/4 T.D. 217

CASING SIZE DEPTH 217

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. approx 10'

PERFS.

DISPLACEMENT 13 DB15

EQUIPMENT

PUMP TRUCK CEMENTER Jack

224 HELPER Jim

BULK TRUCK

341 DRIVER Steve

BULK TRUCK

DRIVER

CEMENT

AMOUNT ORDERED 1605x Common 342

COMMON 160 @ 7.15 1144.00

POZMIX @

GEL 3 @ 10.00 30.00

CHLORIDE 5 @ 30.00 150.00

@

@

@

@

@

HANDLING 168 @ 1.15 193.20

MILEAGE 13.5-168 min 125.00

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TOTAL 1642.20

KCC WICHITA

SERVICE

REMARKS:

Run 5 jts of 8 5/8 csg. cement with
1605x cement - Displace plug with
13 DB15 fresh water

Thanks

DEPTH OF JOB

PUMP TRUCK CHARGE 520.00

EXTRA FOOTAGE @

MILEAGE 13 @ 3.50 45.50

PLUG 1-8 5/8 L head @ 45.00

@

@

TOTAL 610.50

CHARGE TO: Hess Oil Co.

STREET P.O. Box 109

CITY McPherson STATE KS ZIP 67460

FLOAT EQUIPMENT

@
@
@
@
@

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment
and furnish cementer and helper to assist owner or

TOTAL

ORIGINAL

HESS OIL COMPANY

225 N. Market, Suite 300
Wichita, Kansas 67202

(316) 263-2243

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APR 05 2004
KCC WICHITA

GEOLOGICAL REPORT

KIM #1

1710' FNL, 1180' FWL of

SECTION 34 - 16S - 23W

NESS COUNTY, KANSAS

Commenced: 2-26-04

Elevations: 2471' GR, 2476' KB

Completed: 3-5-04

Surface Pipe: 8-5/8" at 217' KB

Contractor: Murfin Drilling rig #24 Production Pipe: none

One foot drilling time was kept from 1800' to 1860' KB and from 3700' to total depth. Ten foot drilling samples (wet & dry) were kept from 4200' to 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.

ANHYDRITE

1809 (+667)

HESS OIL COMPANY

225 N. Market, Suite 300
Wichita, Kansas 67202

(316) 263-2243

Kim #1
Page 2

<u>BASE ANHYDRITE</u>	<u>1844</u>	<u>(+632)</u>
<u>HEEBNER</u>	<u>3872</u>	<u>(-1396)</u>
<u>TORONTO</u>	<u>3890</u>	<u>(-1414)</u>
<u>LANSING</u>	<u>3907</u>	<u>(-1431)</u>
<u>BASE KANSAS CITY</u>	<u>4194</u>	<u>(-1718)</u>
<u>PAWNEE</u>	<u>4298</u>	<u>(-1822)</u>
<u>FORT SCOTT</u>	<u>4386</u>	<u>(-1910)</u>
<u>CHEROKEE SHALE</u>	<u>4410</u>	<u>(-1934)</u>

4420-25' KB

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

4438-50' KB

Cream to tan, very finely crystalline, dense, limestone. Slight to weak shows of free oil in very poor intercrystalline porosity, no odor, slight stain, and slight to weak cuts.

4454-56' KB

Cream, very finely crystalline, dense, limestone. Slight show of free oil in very poor "on edge" porosity, no odor, slight stain, and a slight cut.

4469-76' KB

Clear to white, fine to medium grained, fairly rounded, fairly sorted, sandstone clusters. Weak show of free oil in poor intergrannular porosity, no odor, slight stain, and a weak cut. Some clusters with shale filled porosity!

4476-79' KB

Clear to white, small grained, well rounded, well sorted, sandstone clusters. Slight show of free oil in poor intergrannular porosity, no odor, slight stain, and a weak cut. Some loose sand grains! Most porosity in shale filled!

HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

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Kim #1

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DRILL STEM TEST #1 4410' to 4479' KB 69' Anchor

Blow: Weak surface blow - died in 12 min.

Times: Open 30, Closed 30, Open 0, Closed 0.

Recovered: 5' Mud

Pressures:	IH 2199#	IF 21 - 25#	ISIP 138#
	FH 2087#	FF ---	FSIP ---

4483-92' KB

Clear to tan, fine to medium grained, well rounded, well sorted, sandstone clusters. Fair show of free oil in poor to fair intergrannular porosity, Fair odor, good stain and a strong cut. (looks tight)
Some shale filled porosity.

DRILL STEM TEST #2 4410' to 4492' KB 82' Anchor

Blow: Slow build to 4". 2nd opening -- weak surface blow, building to 1½".

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

Recovered: 185' Mud with Oil Spots. (= 23½ bbls/d)

Pressures:	IH 2229#	IF 28 - 85#	ISIP 1211#
	FH 2084#	FF 86 - 101#	FSIP 1153#

4495-4500' KB

Clear to tan, fine to medium grained, well rounded, well sorted, sandstone clusters. Fair show of free oil in fair intergrannular porosity, fair odor, fair stain, and a fair cut.
Some heavy tar stain.

DRILL STEM TEST #3 4410' to 4500' KB 90' Anchor

Blow: Bottom of bucket in 7 min.

Times: Open 30, Closed 30, Open 0, Closed 0.

HESS OIL COMPANY

225 N. Market, Suite 300
Wichita, Kansas 67202

(316) 263-2243

Kim #1
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Drill Stem Test #3 (cont.)

Recovered: 546' Mud cut SW

Pressures:	IH	2234#	IF	50 - 271#	ISIP	1206#
	FH	2092#	FF	---	FSIP	---

Note: Had to set off jars 7 times to get tools loose!

4500-08' KB

Clear to tan, fine to medium grained, well rounded, well sorted, sandstone clusters. Slight show of free oil in fair intergrannular porosity, no odor, slight stain, and a slight cut.

Some heavy tar stain. Some loose grains.

MISSISSIPPI

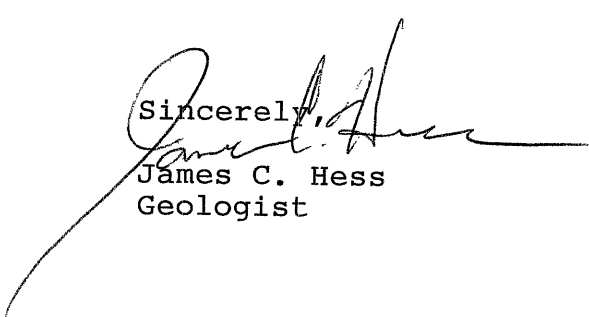
4531 (-2055)

ROTARY TOTAL DEPTH

4570 (-2094)

A full set of open hole logs were run, because we would still like to shoot 3-D Seismic on Sec. 33. Logs run were, Sonic, Dual Induction, Micro, Gamma Ray, and Neutron. RTD & LTD were the same and most sample tops were also the same. This well was close on DST #2 to being an oilwell, however, we needed better sand development.

Sincerely,


James C. Hess
Geologist