

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

**CONFIDENTIAL**

**WELL COMPLETION FORM**

**ORIGINAL**

WELL HISTORY - DESCRIPTION OF WELL & LEASE

KCC

Operator: License # 5663 **OCT 12 2004**  
 Name: Hess Oil Company  
 Address: P.O. Box 1009  
 City/State/Zip: McPherson, KS 67460  
 Purchaser: N.C.R.A.  
 Operator Contact Person: Bryan Hess  
 Phone: (620) 241-4640  
 Contractor: Name: Murfin Drilling Co., Inc.  
 License: 30606  
 Wellsite Geologist: Kurt Smith  
 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>7/29/04</u>	<u>8/5/04</u>	<u>8/24/04</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 071-20797-00-00  
 County: Greeley  
NE NE-SW NE Sec. 22 Twp. 16 S. R. 42  East  West  
1510 feet from N (circle one) Line of Section  
1450 feet from E (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE SE NW SW  
 Lease Name: Cattle Co. Well #: 1  
 Field Name: \_\_\_\_\_  
 Producing Formation: Morrow  
 Elevation: Ground: 3808' Kelly Bushing: 3818'  
 Total Depth: 5152' Plug Back Total Depth: \_\_\_\_\_  
 Amount of Surface Pipe Set and Cemented at 355 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set 2642 Feet  
 If Alternate II completion, cement circulated from 2642  
 feet depth to surface w/ 300 sx cmt.  
**ALTI W/H/M 10-19-04**  
**Drilling Fluid Management Plan**  
 (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.: \_\_\_\_\_

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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.

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: Bryan Hess  
 Title: President Date: 10/12/04  
 Subscribed and sworn to before me this 12th day of October,  
20 04  
 Notary Public: Don J. Reichenberger  
 Date Commission Expires: \_\_\_\_\_

**KCC Office Use ONLY**

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

Operator Name: Hess Oil Company Lease Name: Cattle Co. Well #: 1  
 Sec. 22 Twp. 16 S. R. 42  East  West County: Greeley

**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 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:  <b>Dual Compensated Porosity, Dual Induction</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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"	28#	355'	common	275	3%cc, 2% gel
Production	7-7/8"	5-1/2"	17#	5144'	EA-2	200	
					& Lite	300	

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
4	5075'-5080'	500 gal. 10% HCl (would not treat)	
4	4976'-4990'		

TUBING RECORD		Size <u>2-7/8</u>	Set At <u>4969'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.			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>85</u>	Gas Mcf	Water Bbls. <u>0</u>	Gas-Oil Ratio	Gravity <u>40</u>

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

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled 4976'-5080'

Production Interval  Other (Specify) \_\_\_\_\_

# HESS OIL COMPANY

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

## ACO-1 Completion Form Attachment

**Cattle Co. #1**  
**Approx. C NE**  
**1510' FNL, 1450' FEL, Section 22-16-42W**  
**Greeley County, Kansas**  
**API# 15-071-20797-00-00**

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Elevation: 3818' KB

<u>FORMATION</u>	<u>LOG TOP</u>	<u>DATUM</u>
Anhydrite	2692'	( +1126')
Base Anhydrite	2720'	( +1098')
Heebner	4072'	(-254')
LKC	4132'	(-314')
Marmaton	4495'	(-677')
Cherokee Shale	4692'	(-874')
Atoka	4818'	(-1000')
Morrow Shale	4958'	(-1140')
Morrow Upper Sand	4980'	(-1162')
Morrow Lower Sand	5075'	(-1257')
Morrow Lime	5087'	(-1269')
Mississippian	5140'	(-1322') sample
RTD	5150'	(-1332')
LTD	5152'	(-1334')

DST #1: Depth: 4958'-4988'

Times: 30-45-30-45

Blows: IF - fair to strong off bottom in 4 min  
ISI - weak to fair off bottom in 20 min  
FF - fair to strong of bottom in 2 min  
FSI - GTS while bleeding off (does burn)

Recoveries: 270' GOCM (25% gas, 20% oil, 55% mud)  
90' CGO (15% gas, 85% oil)  
360' GSOWCM (30% gas, 5% oil, 10% wtr, 55% mud)  
GTS on final shut-in

Pressures: IH 2478#, IF 42-166#, ISI 818#, FF 217-225#, FSI 817#, FH 2367#

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SALES OFFICE:  
100 S. Main  
Suite #607  
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  
(620) 672-1111  
(620) 672-5383 FAX

SALES & SERVICE OFFICE:  
1700 S. Country Estates Rd.  
P.O. Box 129  
Liberal, KS 67905-0129  
(620) 624-2277  
(620) 624-2280 FAX

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Invoice

<b>Bill to:</b>			3575042	<b>Invoice</b>	<b>Invoice Date</b>	<b>Order</b>	<b>Order Date</b>
HESS OIL COMPANY P.O. Box 905 McPherson, KS 67460				408059	8/23/04	7668	8/6/04
				<b>Service Description</b>			
				Cement			
				<b>Lease</b>		<b>Well</b>	
				Cattle		1	
<b>A/E</b>	<b>CustomerRep</b>	<b>Treater</b>		<b>Well Type</b>	<b>Purchase Order</b>	<b>Terms</b>	
	J. Hess	J. Bennett		New Well		Net 30	

7963  
SEP 7 PAID

<u>ID.</u>	<u>Description</u>	<u>UOM</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Price</u>
D205	AA2 (COMMON)	SK	200	\$14.75	\$2,950.00 (T)
D206	A-SERV LITE (COMMOM)	SK	300	\$9.00	\$2,700.00 (T)
C194	CELLFLAKE	LB	71	\$2.00	\$142.00 (T)
C195	FLA-322	LB	151	\$7.50	\$1,132.50 (T)
C221	SALT (Fine)	GAL	1044	\$0.25	\$261.00 (T)
C243	DEFOAMER	LB	38	\$3.45	\$131.10 (T)
C321	GILSONITE	LB	1000	\$0.60	\$600.00 (T)
C310	CALCIUM CHLORIDE	LBS	564	\$0.80	\$451.20 (T)
C244	CEMENT FRICTION REDUCER	LB	47	\$4.75	\$223.25 (T)
F121	BASKET, 5 1/2"	EA	1	\$205.00	\$205.00 (T)
F211	AUTO FILL FLOAT SHOE, 5 1/2"	EA	1	\$320.00	\$320.00 (T)
F101	TURBOLIZER, 5 1/2"	EA	7	\$71.00	\$497.00 (T)
F251	TWO STAGE CEMENT COLLAR, 5 1/2"	EA	1	\$4,250.00	\$4,250.00 (T)
F181	LATCH DOWN PLUG & BAFFLE, 5 1/2"	EA	1	\$575.00	\$575.00 (T)
F800	THREADLOCK COMPOUND KIT	EA	1	\$30.00	\$30.00 (T)
C302	MUD FLUSH	GAL	500	\$0.75	\$375.00 (T)
R701	CEMENT HEAD RENTAL	EA	1	\$250.00	\$250.00
E101	CAR, PICKUP OR VAN MILEAGE - 1 WAY	MI	175	\$2.00	\$350.00
E100	HEAVY VEHICLE MILEAGE - 1 WAY	MI	175	\$3.50	\$612.50
E104	PROPPANT / BULK DELIV SERVICES/TON MILE, \$200 MIN	TM	4113	\$1.50	\$6,169.50
R211	CASING CEMENT PUMPER, 5001-5500' 1ST 4 HRS ON LOC	EA	1	\$1,943.00	\$1,943.00
R402	CEMENT PUMPER, ADDITIONAL HRS ON LOCATION	HR	1	\$210.00	\$210.00
E107	CEMENT SERVICE CHARGE	SK	500	\$1.50	\$750.00

Sub Total: \$25,128.05

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.

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**SALES OFFICE:**  
100 S. Main  
Suite #607  
Wichita KS 67202  
(316) 262-3899  
(316) 262-5799 FAX

**SALES & SERVICE OFFICE:**  
10244 NE Hiway 61  
P.O. Box 8613  
Pratt, KS 67124-8613  
(620) 672-1201  
(620) 672-5383 FAX

**SALES & SERVICE OFFICE:**  
1700 S. Country Estates Rd.  
P.O. Box 129  
Liberal, KS 67905-0129  
(620) 624-2277  
(620) 624-2280 FAX

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## Invoice

	<i>Discount:</i>	\$7,603.62
	<i>Discount Sub Total:</i>	\$17,524.43
<i>Greeley County &amp; State Tax Rate: 6.30%</i>	<i>Taxes:</i>	\$652.15
<i>(T) Taxable Item</i>	<i>Total</i>	<b>\$18,176.58</b>

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

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INVOICE NO.  
Date 8-6-04  
Customer ID

Subject to Correction  
Lease Cattle  
County Greeley  
Well # 1  
State KS  
Station Liberal  
Legal 22-16-42W  
Depth Formation DU@ 2646  
Shoe Joint 21'  
Casing 5 1/2 Casing Depth 5144 TD 5150  
Job Type 2 stage DU Longstr N.W.  
Customer Representative Jamie Hess  
Treater Jerry Bennett

**FIELD ORDER 7668**

CHARGE

Hess Oil Company  
P O Box 905  
Mepherston, KS 67460

AFE Number PO Number

Materials Received by *Jamie Hess*

Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D205	200 sks	AA2 (Common)	PRATT	-		
D206	300 sks	A Serv Lite Common	LINERAC	-		
C194	71 lbs	CellFlake				KCC
C195	151 lbs	FLA-322				OCT 12 2004
C221	1044 lbs	Salt (Fine)				CONFIDENTIAL
C243	38 lbs	DeFoamer				
C321	1000 lbs	Gilsonite				
C310	564 lbs	Calcium Chloride	lib			
C244	47 lbs	Cement Friction Reducer				
F121	1 ea	5 1/2 Cement Basket				
F211	1 ea	5 1/2 Auto Float Shoe				
F101	7 ea	Turbolizers 5 1/2				
F251	1 ea	Two Stage Cement Collar	5 1/2			
F181	1 ea	Latch Down Plug & Baffle	5 1/2			
F800	1 ea	Threadlock Compound				
C.302	500	Mud Flush				
R701	1 ea	Cement Head Rental				RELEASED FROM CONFIDENTIAL
E101	175 mi	Pickup Mileage 1 Way				
E100	175 mi	UNITS 1 MILES 1 Way				
E104	4113 Ton	TONS 24 MILES 175				
E204	1 Ea	EA. 4 hr PUMP CHARGE				
R402	1 Ea	1 hr Additional Hr				
E.107	500 sks	Cement Service Charge				
Discounted Total						
Plus Tax						17524.43

10244 NE Hiway 61 · P.O. Box 8613 · Pratt, KS 67124-8613 · Phone (620) 672-1201 · Fax (620) 672-5383 TOTAL



**TREATMENT REPORT**

Customer ID	Date	
Customer	8.6.04	
Lease	Lease No.	Well #
Cattle		1

Field Order #	Station	Casing	Depth	County	State
7608	Liberal	5 1/2		Greeley	Ks
Type Job	Formation		Legal Description		
Two Stage DV Longstring			22.16.42 W		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
5 1/2				200 sks AA-2				
Depth	Depth	From	To	Pre Pad		Max		5 Min.
Volume	Volume	From	To	Pad		Min		10 Min.
Max Press	Max Press	From	To	Frac		Avg		15 Min.
1400								
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative	Station Manager	Treater
Jemie Hess	Jerry Bennett	Jerry Bennett

Service Units	708	115	28	38	570	335		
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0300					On location
0320					Pre job Safety Meeting
0345					Set up Trucks
0330					Start 5 1/2 casing in hole
					Run DV @ 2646" KB
					Insert @ 5123' KB
0740			12		Run 500 gal Mud Flush
0750	200		50	5	Mix 200 sks AA-2 Premium
0755			—	—	@ 15 ppq
0801			1		Drop latch down Plug
0814	300		57	5	Start Displacement water
0830	1400		118.8	4	Change over to Drilling mud
					Land bottom stage
					Wash up truck
					Drop Bomb
0924	750				Open DV open
0930					Change over to rig
					Circulate til 1230 AM

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