

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1
September 1999
Form Must Be Typed

ORIGINAL

Operator: License # 33233
Name: Heartland Oil & Gas, Inc.
Address: c/o BAM Energy, Inc., 6286 East Long Circle North
City/State/Zip: Englewood, Colorado 80112
Purchaser: None
Operator Contact Person: Bill Hayworth
Phone: (303) 221-4768
Contractor: Name: Gulick Drilling, Inc.
License: 32854
Wellsite Geologist: Kevin Severance

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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>7/21/03</u>	<u>7/26/03</u>	<u>11/24/03</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 131-201760000
County: Nemaha
SW SE Sec. 18 Twp. 5 S. R. 14 East West
710 feet from (S) / N (circle one) Line of Section
1930 feet from (E) / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE (SE) NW SW
Lease Name: Engelke Well #: 15-18
Field Name: Wildcat
Producing Formation: Cherokee
Elevation: Ground: 1291' Kelly Bushing: 1299.5'
Total Depth: 2679' Plug Back Total Depth: 2609'
Amount of Surface Pipe Set and Cemented at 276 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 crnt.

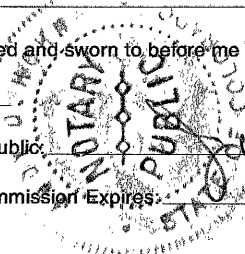
Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit) *ACE 10-22-04*
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: Consultant Date: 1/9/04
Subscribed and sworn to before me this 3rd day of January,
20 04
Notary Public: [Signature]
Date Commission Expires: _____ by Commission Expires 03/22/2005



KCC Office Use ONLY

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

Operator Name: Heartland Oil & Gas, Inc. Lease Name: Engelke Well #: 15-18
 Sec. 18 Twp. 5 S. R. 14 East West County: Nemaha

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)

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Pleasanton	1730'	
Marmaton	1770'	
Cherokee	1910'	

List All E. Logs Run:

BC Sonic
 Dual Comp. Porosity
 Dual Induction Log
 Microresistivity

Geologic Report Enclosed

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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"	23#	276'	Class A	147	3%CaCL, 3%Gel.t, 1/4# Flocele
Production	7 7/8"	5 1/2"	15.5	2649'	OWC THIXO	190	1/4# Flocele

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 spf	2346'- 2348', 2351'- 2353', 2382'- 2384'	910 bbls of fluid	2346'-
	2400'- 2402', 2417- 2419', 2444' - 2446', 2472'- 2474'	& 51,966# of sand	2474'

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 7/8"	2405'	None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
11/24/03		<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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	0	144	Unknown	Unknown

Disposition of Gas Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

(If vented, Submit ACO-18.)

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TREATMENT REPORT

CONSOLIDATED OIL WELL SERVICES, INC.
211 W. 14TH STREET, CHANUTE, KS 66720
620-431-9210 OR 800-467-8676

TICKET NUMBER

ORIGINAL

23107

LOCATION

Of Tawia

FOREMAN

Alan Maden

15718

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
7-22-03	3576	Engelke 9-18		18	5	14	NM	
CHARGE TO				OWNER				
MAILING ADDRESS				OPERATOR				
CITY				CONTRACTOR				
STATE		ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION				TIME LEFT LOCATION				

WELL DATA

HOLE SIZE	12 1/2"
TOTAL DEPTH	290'
CASING SIZE	8 5/8"
CASING DEPTH	276'
CASING WEIGHT	10' Sub
CASING CONDITION	
TUBING SIZE	
TUBING DEPTH	
TUBING WEIGHT	
TUBING CONDITION	
PACKER DEPTH	
PERFORATIONS	
SHOTS/FT	
OPEN HOLE	
TREATMENT VIA	

TYPE OF TREATMENT

<input checked="" type="checkbox"/> SURFACE PIPE	<input type="checkbox"/> ACID BREAKDOWN
<input type="checkbox"/> PRODUCTION CASING	<input type="checkbox"/> ACID STIMULATION
<input type="checkbox"/> SQUEEZE CEMENT	<input type="checkbox"/> ACID SPOTTING
<input type="checkbox"/> PLUG & ABANDON	<input type="checkbox"/> FRAC
<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> FRAC + NITROGEN
<input type="checkbox"/> MISC PUMP	<input type="checkbox"/> FOAM FRAC
<input type="checkbox"/> OTHER	<input type="checkbox"/> NITROGEN

PRESSURE LIMITATIONS

	THEORETICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

INSTRUCTION PRIOR TO JOB

386 A Make 122 Mhevis
363 B 2abel

Cement surface with Partkinds
3 7/8 Cull, 20% gel, 1/4" flow seal.
Mixed & 14.8 PPG, 1.35 yield

JOB SUMMARY

DESCRIPTION OF JOB EVENTS 7-21-03. Waited on casing to be run for 7 1/2 hours.
7-22-03. Established circulation. Pumped 20 bbl water to flush hole.
Mixed & pumped 10 bbl dye marker followed by 147.52 cement.
Pumped 8 5/8 wood plug to app 250' with 17 bbl water.
Circulated 5 bbl cement return. Plug down @ 3:00 P.M.

PRESSURE SUMMARY

BREAKDOWN OF CIRCULATING		psi
FINAL DISPLACEMENT	100	psi
ANNULUS		psi
MAXIMUM		psi
MINIMUM		psi
AVERAGE		psi
ISIP	100	psi
5 MIN SIP		psi
15 MIN SIP		psi

TREATMENT RATE

Alan Maden

BREAKDOWN BPM	
INITIAL BPM	
FINAL BPM	
MINIMUM BPM	
MAXIMUM BPM	
AVERAGE BPM	5

AUTHORIZATION TO PROCEED

TITLE

DATE

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ORIGINAL

CONSOLIDATED OIL WELL SERVICES, INC.
211 W. 14TH STREET, CHANUTE, KS 66720
620-431-9210 OR 800-467-8676

TREATMENT REPORT

TICKET NUMBER 23109

LOCATION Ottawa

FOREMAN Bill Zabel

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
7-26-03		Kengel KE 15-18		18	5	14	NA	
CHARGE TO <u>Hearthand oil & Gas Co Bill Hayward</u>				OWNER				
MAILING ADDRESS <u>6286 E. Longcircle North</u>				OPERATOR				
CITY <u>Englewood, CO</u>				CONTRACTOR <u>Gulick Drilling Co Inc.</u>				
STATE <u>Colorado</u> ZIP CODE <u>80112</u>				DISTANCE TO LOCATION <u>110 miles</u>				
TIME ARRIVED ON LOCATION <u>8:00 AM</u>				TIME LEFT LOCATION <u>1:00 PM</u>				

WELL DATA	
HOLE SIZE	<u>7 7/8"</u>
TOTAL DEPTH	<u>2679</u>
CASING SIZE	<u>5 1/2"</u>
CASING DEPTH	<u>2649</u>
CASING WEIGHT	<u>15K</u>
CASING CONDITION	<u>New</u>
TUBING SIZE	
TUBING DEPTH	
TUBING WEIGHT	
TUBING CONDITION	
PACKER DEPTH	
PERFORATIONS	
SHOTS/FT	
OPEN HOLE	
TREATMENT VIA	

TYPE OF TREATMENT	
<input type="checkbox"/> SURFACE PIPE	<input type="checkbox"/> ACID BREAKDOWN
<input checked="" type="checkbox"/> PRODUCTION CASING	<input type="checkbox"/> ACID STIMULATION
<input type="checkbox"/> SQUEEZE CEMENT	<input type="checkbox"/> ACID SPOTTING
<input type="checkbox"/> PLUG & ABANDON	<input type="checkbox"/> FRAC
<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> FRAC + NITROGEN
<input type="checkbox"/> MISC PUMP	<input type="checkbox"/> FOAM FRAC
<input type="checkbox"/> OTHER	<input type="checkbox"/> NITROGEN

PRESSURE LIMITATIONS		
	THEORETICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

INSTRUCTION PRIOR TO JOB Cement bottom of casing with OWC (Portland II, 6% gypsum, 2% Colomin 20 gel) with 1/4" Fluoreal mixed @ 14.7 PPG + 1.44 yield (368-B2 + B4, 369-B4, 122 ML)

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Broke circulation mixed & pumped 30 BBL stock flush pumped 190 gal OWC with 1/4" Fluoreal casing City water with bacteriaicide. Flushed pump clean. Released 5% Rubber plug and displaced 2613' to Baffle high in Strat. Unit. Took 627 BBL of water with KCL substitute mixed in Well Head 12:00 hrs. Cement was mixed @ 14.7 PPG and yield of 1.44.

PRESSURE SUMMARY	
BREAKDOWN or CIRCULATING	psi <u>100</u>
FINAL DISPLACEMENT	psi <u>700</u>
ANNULUS	psi
MAXIMUM	psi
MINIMUM	psi
AVERAGE	psi <u>450</u>
ISIP	psi <u>1200</u>
5 MIN SIP	psi
15 MIN SIP	psi

TREATMENT RATE	
BREAKDOWN BPM	
INITIAL BPM	
FINAL BPM	
MINIMUM BPM	
MAXIMUM BPM	
AVERAGE BPM	<u>5 BPM</u>

AUTHORIZATION TO PROCEED [Signature]

TITLE

DATE 7-26-03

ALL THE TERMS AND CONDITIONS STATED ON THE REVERSE SIDE ARE INCORPORATED AS PART OF THIS SALE