

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 # 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: Chris Ryan

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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. _____

<u>7/16/03</u>	<u>7/20/03</u>	<u>11/24/03</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 131-201770000
County: Nemaha
NE SE Sec. 18 Twp. 5 S. R. 14 East West
2030 feet from (S) N (circle one) Line of Section
660 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 #: 9-18

Field Name: Wildcat
Producing Formation: Cherokee Coals
Elevation: Ground: 1259' Kelly Bushing: 1267.5'
Total Depth: 2692' Plug Back Total Depth: 2629'
Amount of Surface Pipe Set and Cemented at 264 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 and 2. 12.04
(Data must be collected from the Reserve Pit)
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: 1/3/04
Subscribed and sworn to before me this 3rd day of January,
2004
Notary Public: [Signature]
Date Commission Expires: _____ My 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

X

ORIGINAL

Side Two

Operator Name: Heartland Oil & Gas, Inc. Lease Name: Engelke Well #: 9-18
Sec. 18 Twp. 5 S. R. 14 [x] 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 [x] No (Attach Additional Sheets)

Samples Sent to Geological Survey [] Yes [x] No

Cores Taken [] Yes [x] No

Electric Log Run [x] Yes [] No (Submit Copy)

List All E. Logs Run:

BC Sonic
Dual Comp. Porosity
Dual Induction Log
Microresistivity

[x] Log Formation (Top), Depth and Datum [] Sample

Name Top Datum
Pleasanton 1694'
Marmaton 1748'
Cherokee 1872'

Geologic Report Enclosed

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CASING RECORD [x] New [] Used

Report all strings set-conductor, surface, intermediate, production, etc.

Table with 8 columns: 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. Rows include Surface and Production data.

ADDITIONAL CEMENTING / SQUEEZE RECORD

Table with 5 columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives. Includes checkboxes for Perforate, Protect Casing, Plug Back TD, Plug Off Zone.

Table with 4 columns: 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. Includes data for 4 spf and 2336'-2338' intervals.

TUBING RECORD table with columns: Size, Set At, Packer At, Liner Run [] Yes [x] No.

Table with 2 columns: Date of First, Resumerd Production, SWD or Enhr. (11/24/03), Producing Method [] Flowing [x] Pumping [] Gas Lift [] Other (Explain).

Table with 6 columns: Estimated Production Per 24 Hours, Oil Bbls., Gas Mcf, Water Bbls., Gas-Oil Ratio, Gravity. Values include 0, 0, 68, Unknown, Unknown.

Disposition of Gas METHOD OF COMPLETION Production Interval
[] Vented [] Sold [] Used on Lease [] Open Hole [x] Perf. [] Dually Comp. [x] Commingled 177,932-C
(if vented, Submit ACO-18.) [] Other (Specify) 11-2-1991

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TICKET NUMBER 23103

LOCATION Ottawa

FOREMAN Alan Mader

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

TREATMENT REPORT

15-131-20177-0000

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
7-18-03		Engelke 17-18		18			Nemaha	
CHARGE TO				OWNER				
MAILING ADDRESS				OPERATOR				
CITY				CONTRACTOR				
STATE		ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION				TIME LEFT LOCATION				

HOLE SIZE	12 1/4
TOTAL DEPTH	266'
CASING SIZE	8 7/8
CASING DEPTH	254'
CASING WEIGHT	+
CASING CONDITION	10' Sub
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 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 Mader
 310 32-hal 195 CRANK

Cement surface casing with
 Portland "A" 370 Lact, 2% gel,
 1/2" flou seal Mixed @ 14.8 PPG
 1.35 yield.

JOB SUMMARY

DESCRIPTION OF JOB EVENTS
 Established circulation. Mixed & pumped
 3 1/4 bbl dye marker followed by 255 sx cement.
 Circulated dye to surface. Released 8 5/8 wood plug
 Displaced plug to 254' with 15 1/4 bbl water. Let +
 20' cement plug increasing. Circulated 7 bbl cement
 return. Closed valve.
 Used excess cement die to wash outs.

PRESSURE SUMMARY	
BREAKDOWN or CIRCULATING	psi
FINAL DISPLACEMENT	psi
ANNULUS	psi
MAXIMUM	psi
MINIMUM	psi
AVERAGE	psi
ISIP	psi
5 MIN SIP	psi
15 MIN SIP	psi

TREATMENT RATE	
BREAKDOWN BPM	
INITIAL BPM	
FINAL BPM	
MINIMUM BPM	
MAXIMUM BPM	
AVERAGE BPM	

AUTHORIZATION TO PROCEED TITLE DATE

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KCC WICHITA

ORIGINAL

TICKET NUMBER 23104

LOCATION Ottawa

FOREMAN Alan Mader

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

TREATMENT REPORT

15-131-20177-0000

DATE <u>7-20-03</u>	CUSTOMER ACCT #	WELL NAME <u>Engelke 9-18</u>	QTR/QTR	SECTION <u>18</u>	TWP <u>5</u>	RGE <u>14</u>	COUNTY <u>N.M.</u>	FORMATION
CHARGE TO <u>Heartland Oil Gas</u>				OWNER				
MAILING ADDRESS <u>6286 E. Long Circle North</u>				OPERATOR <u>Kill Hayward</u>				
CITY <u>Englewood</u>				CONTRACTOR <u>Conlark</u>				
STATE <u>CO</u>		ZIP CODE <u>80117</u>		DISTANCE TO LOCATION <u>110</u>				
TIME ARRIVED ON LOCATION <u>2:00 P.M.</u>				TIME LEFT LOCATION <u>5:30 P.M.</u>				

WELL DATA	
HOLE SIZE <u>7 7/8</u>	
TOTAL DEPTH <u>2692</u>	
CASING SIZE <u>5 1/2</u>	
CASING DEPTH <u>2672</u>	
CASING WEIGHT <u>10' land sub. - 2682'</u>	
CASING CONDITION <u>baffle @ 2637'</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
336 A Mader 369 C Bensink
368 B Zabel 122 M Kite

cement up to 1500' with
DWL (Perilant A. 67% gypsum, 2% Cell
2% Zegal) 1/4" flow seal Mixed @ 14.7 PPG
1.44 Yield.

JOB SUMMARY

DESCRIPTION OF JOB EVENTS
Establish circulation Min 2 gal Foamer with 30 bbl
water to flush hole, Mixed + pumped 188.5x DWL @ 14.7 PPG
with c.f. water + bactericide. Flashed pump & lines.
Pumped 3/8 rubber plug to baffle @ 2637' Well held 1000 PSI
Set float. Pumped plug with KLL water. K&P equipment
used 62.73 bbl for plug

Alan Mader

PRESSURE SUMMARY	
BREAKDOWN or CIRCULATING	<u>200</u> psi
FINAL DISPLACEMENT	<u>500</u> psi
ANNULUS	psi
MAXIMUM	psi
MINIMUM	psi
AVERAGE	psi
ISIP	<u>1000</u> psi
5 MIN SIP	psi
15 MIN SIP	psi

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

AUTHORIZATION TO PROCEED

TITLE

DATE

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