SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

S

API NO. 15- 009-24,332

County Barton

NW SW NW Sec. 8 Twp. 16S Rge. 14 __ East X West

3630 Ft North from Southeast Corner of Section
4950 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Krug Well # 1-8

Field Name

Producing Formation

Elevation: Ground 1923' KB 1928'

Operator: License # 3180
Name Deutsch Oil Company
Address 107 N. Market
Suite 1115
City/State/Zip Wichita, KS 67202

Purchaser

Operator Contact Person Kent Deutsch
Phone 316 267-7551

Contractor: License # 5929
Name Duke Drilling Company, Inc.

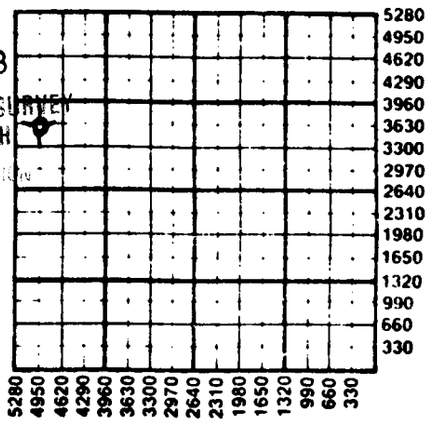
Wellsite Geologist Kent Deutsch
Phone 316 267-7551

Designate Type of Completion
X New Well __ Re-Entry __ Workover

__ Oil __ SWD __ Temp Abd
__ Gas __ Inj __ Delayed Comp.
X Dry __ Other (Core, Water Supply etc.)

If OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

Section Plat



AUG 26 1988
KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

AUG 24 1988
CONSERVATION DIVISION
Wichita, Kansas

WELL HISTORY

Drilling Method:
X Mud Rotary __ Air Rotary __ Cable

7-22-88 Spud Date
7-27-88 Date Reached TD
7-28-88 Completion Date

3432 Total Depth
PBTD

Amount of Surface Pipe Set and Cemented at 218 feet
Multiple Stage Cementing Collar Used? __ Yes __ No
If yes, show depth set feet
If alternate 2 completion, cement circulated
from feet depth to w/ SX cmt
Cement Company Name
Invoice #

WATER SUPPLY INFORMATION

Disposition of Produced Water: __ Disposal
Docket # __ Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #

__ Groundwater Ft North from Southeast Corner
(Well) Ft West from Southeast Corner of
Sec Twp Rge __ East __ West

X Surface Water 4950 Ft North from Southeast Corner
(Stream, pond etc) 4290 Ft West from Southeast Corner
Sec 10 Twp 15 Rge 15 __ East X West

__ Other (explain)
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply.
Information on 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 drillers time log shall be attached with this form. 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 Kent A. Deutsch
Title V. PRESIDENT Date 8-23-88

Subscribed and sworn to before me this 23rd day of August, 19 88.
Notary Public J. Darlene Stam
Date Commission Expires 10-1-89.

K.C.C. OFFICE USE ONLY
F __ Letter of Confidentiality Attached
C ✓ Wireline Log Received
C __ Drillers Timelog Received
Distribution
__ KCC __ SWD/Rep __ NGPA
✓ KGS __ Plug __ Other (Specify)

Sec. 8 Twp. 16 Rge. 14W

Form ACO-1 (5-86)

SIDE TWO

Operator Name Deutsch Oil Company Lease Name Krug Well # 1-8

Sec. 8 Twp. 16S Rge. 14 ☐ East ☒ West County Barton

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken ☒ Yes ☐ No
Samples Sent to Geological Survey ☒ Yes ☐ No
Cores Taken ☐ Yes ☒ No

DST #1 3144-3186 30-60-45-90
142' GIP HP: 1659#-1659#
50' HOCM IFP: 66#-121#
252' OCW ISIP: 755#
126' Water FFP: 154#-209#
FSIP: 745#
BHT: 98 F

DST #2 3280-3340 15-30-15-30
10' Mud HP: 1809#-1809#
IFP: 49#-49#
ISIP: 718#
FFP: 58#-58#
FSIP: 467#
BHT: 98 F

DST #3 3361-3397 15-30-15-30
5' Oil Specked Mud HP: 1858#-1858#
IFP: 33#-33#
ISIP: 896#
FFP: 33#-33#
BHT: 96 F FSIP: 777#

Formation Description
☒ Log ☐ Sample

Name	Top	Bottom
Topeka	2852	-0924
Heebner	3080	-1152
Toronto	3098	-1170
Douglas	3115	-1187
Lansing	3144	-1216
Arbuckle	3396	-1468

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 pipe	12¼"	8 5/8"	20#	218	60/40 Poz	135	2% gel 3% C.C.

PERFORATION RECORD

Shots Per Foot	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 Production | Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain)

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	Bbls	MCF	Bbls	CFPB	

METHOD OF COMPLETION

Disposition of gas: ☐ Vented ☐ Sold ☐ Used on Lease

☐ Open Hole ☐ Perforation
☐ Other (Specify)

☐ Dually Completed
☐ Commingled

Production Interval