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

5

API NO. 15-135-23,204-00-00

County Ness /

NE NE NW Sec. 36 Twp. 17S Rge. 21 __ East X West

4950 Ft North from Southeast Corner of Section
2970 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Casey #1 Well # 4

Field Name

Producing Formation

Elevation: Ground 2165' KB 2170'

Operator: License # 5565
Name National Cooperative Refinery Assoc.
Address Box 6
City/State/Zip Great Bend, Ks. 67530

Purchaser

Operator Contact Person I. J. Gotsche
Phone (316) 793-7824

Contractor: License # 5422
Name Abercrombie Drilling, Inc.

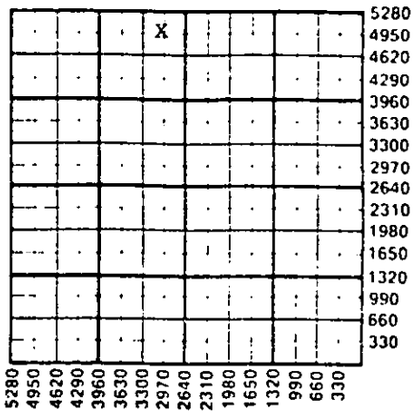
Wellsite Geologist Paul Gerlach
Phone 316 269-2083

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



WELL HISTORY

Drilling Method:
X Mud Rotary __ Air Rotary __ Cable

2-1-88 Spud Date
2-10-88 Date Reached TD
2-11-88 Completion Date

4250 Total Depth
PBTD

Amount of Surface Pipe Set and Cemented at 411 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

__ Surface Water Ft North from Southeast Corner
(Stream, pond etc) Ft West from Southeast Corner
Sec Twp Rge __ East __ West

X Other (explain) Pond
(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
I. J. Gotsche
Title District Superintendent Date 2/25/88

Subscribed and sworn to before me this 25th day of February, 19 88.
Notary Public Patricia Schultz
Patricia Schultz
Date Commission Expires January 29, 1989

NOTARY PUBLIC - State of Kansas
PATRICIA SCHULTZ
My Appt. Exp. 1-29-89

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)
2-29-88

Sec. 36 Twp. 17 Rge. 21W

STATE CORPORATION COMMISSION
FEB 29 1988
CONSERVATION DIVISION
Wichita, Kansas

Form ACO-1 (5-86)

SIDE TWO

Operator Name ...National.Cooperative.Refinery.Association.....Lease Name.....Casey.#1.....Well #...4.....

Sec.....36..... Twp.....17S..... Rge.....21..... ☐ East ☒ West County.....Ness.....

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 (Cherokee "A") 4085-99' 15-30-30-90 Slight blow on bottom of bucket for 4 mins. IHP 2047# IFP 75-367# ISIP 519# FFP 497-508# FSIP 519# FHP 2015# BHT 117°F. Rec. 1040' salt wtr.

DST #2 (Mississippi) 4170-85' 15-45-60-120 Weak to strong blow 30 mins. on 2nd open. IHP 2060# IFP 21-21# ISIP 1098# FFP 32-32# FSIP 1098# FHP 2036# BHT 118°F. Rec. 290' GIDP, 10' OCM (35% oil, 55% mud, 10% wtr.), 60' M&WCO (60% oil, 10% wtr., 20% mud, 10% gas.

DST #3 4170-90' 15-45-60-120 Weak blow on both opens. IHP 2101# IFP 44-43# ISIP 1044# FFP 75-75# FSIP 1109# FHP 2036# BHT 118°F. Rec. 165' GIDP, 15' OCM (35% oil - 65% mud), 60' HOCM (48% oil - 50% mud. -2% filter wtr.)

DST #4 4170-97' 15-45-60-120 Weak blow 3" in bucket. IHP 2091# IFP 75-75# ISIP 1162# IFP 75-75# ISIP 1162# FHP 2058# BHT 118°F. Rec. 10' HOCM (35% oil - 65% mud), 60' OCM (13% oil - 2% gas - 85% mud).

Formation Description
☒ Log ☐ Sample

Name	Top	Bottom
Heebner	3580'	(-1410')
L/KC	3612'	(-1442')
B/KC	3902'	(-1732')
Pawnee	4006'	(-1836')
Fort Scott	4078'	(-1908')
Cherokee Shale	4091'	(-1921')
Cherokee "A" Sand	4099'	(-1929')
Cherokee "B" Sand	4119'	(-1949')
Cherokee "C" Sand	4135'	(-1965')
Mississippi	4172'	(-2002')
LTD	4250'	

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	13"-12¼"	8.5/8	24	411.11	Common	250	3% cc

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).....

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

METHOD OF COMPLETION Production Interval

Disposition of gas: ☐ Vented ☐ Sold ☐ Used on Lease
☐ Open Hole ☐ Perforation
☐ Other (Specify) .....
☐ Dually Completed
☐ Commingled