

7/24/87
KCC

S SIDE ONE

RELEASED

STATE OF KANSAS
OIL & GAS CONSERVATION DIVISION
Date: **AUG 1 1987**
WELL COMPLETION OR RECOMPLETION FORM
FROM CONFIDENTIAL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: License # **5886**
Name **CHIEF DRILLING CO., INC.**
Address **151 N. Main Suite #700**
Wichita, Kansas 67202
City/State/Zip

Purchaser **Koch Oil Co.**

Operator Contact Person **E.W. Shelton, Jr.**
Phone **Vice President 262-3791**

Contractor: License # **5883**
Name **Warrior Drilling Co.**

Wellsite Geologist **Ron Dulos**
Phone **316-262-3791**

Designate Type of Completion
☒ New Well ☐ Re-Entry ☐ Workover

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

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

WELL HISTORY

Drilling Method:
☒ Mud Rotary ☐ Air Rotary ☐ Cable
3-27-86 4-07-86 4-24-86
Spud Date Date Reached TD Completion Date
300 RTD 4508'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at **300'**
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

API NO. 15-.....15-101-21.305.....
County.....LANE.....
SE SE NW Sec 1 Twp 18S Rge 30 ☐ East ☒ West

2970..... Ft North from Southeast Corner of Section
2870..... Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

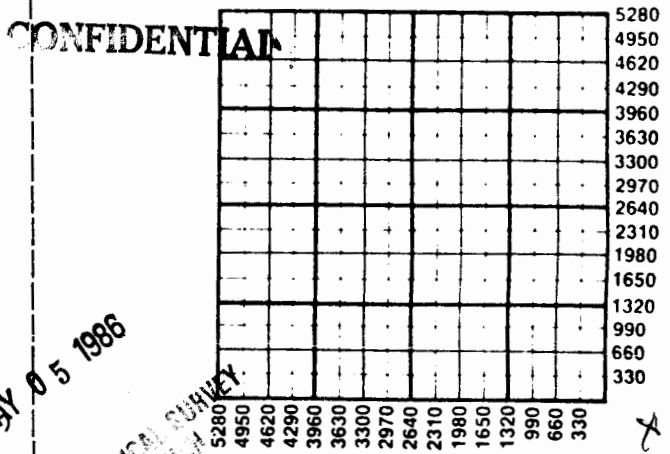
Lease Name.....CRAMER.....Well #.....1.....

Field Name.....MIDDLE CREEK.....

Producing Formation.....Pawnee.....

Elevation: Ground.....2838.....KB.....2843.....

Section Plat



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 #.....22111.....

☒ Groundwater.....Ft North from Southeast Corner
(Well)Ft West from Southeast Corner of
NW/4 Sec 1 Twp 18S Rge 30 ☐ East ☒ West
SE/4 23 17 30 XX

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

Pumped to rig by Robert Cramer
☐ Other (explain).....
(purchased from city, R.W.D. #)

METHOD OF COMPLETION

Disposition of gas: ☐ Vented ☐ Open Hole ☒ Perforation
☐ Sold ☐ Other (Specify)
☐ Used on Lease

☐ Dually Completed
☐ Commingled
☒ Single

Production Interval

4424-4431

SIDE TWO

Operator Name Chief Drilling Co., Inc. Lease Name..... CRAMER Well #..... 1.....

Sec... 1..... Twp... 18S... Rge... 30..... ☐ East ☒ West County..... Lane Co., Ks.

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
100 Bbls		MCF	Bbls	CFPB	40

Drill Stem Tests Taken

☒ Yes ☐ No

Samples Sent to Geological Survey

☒ Yes ☐ No

Cores Taken

☐ Yes ☒ No

4-02-86 DST #1 4214-4323 (Lans 200 - Pleasanton) wk bl died in 30", Rec. 90' MW, IBHP: 1028# FBHP: 964# IFF: 71-71 FFP: 71-71

4-03-86 DST #2 4319-4376 (Upper Marm & Marm "A") very strong blow, GTS end of 2nd flow, Rec. 2560' CGO 41 gr, no Water IBHP: 1228# FBHP: 1228# IFF: 223-580 FFP: 661-983

4-04-86 DST #3 4384-4415 (Marm "C") 30-45-75-60 st bl off bottom in 4", Rec. 500' GIP, 380' CGO, 40 gr, 60 temp, IBHP: 1146# FBHP: 983# IFF: 80-98 FFP: 107-169 DST #4 4405-4485 30-45-45-45 (Pawnee, Ft Scott) SBOB immediately, GTS 75", Rec. 1575' CGO, Gravity 41 @ 60 F, IBHP: 1074# FBHP: 983# IFF: 151 312 FFP: 401-535 HP: 2261-2215

4-05-86 DST #5 4454-4485 (Ft Scott) wk bl throughout 30-45-45-45 (Pawnee, Ft Scott) SBOB immediately, GTS 75", Rec. 1575' CGO, Gravity 41 @ 60 F, IBHP: 1074# FBHP: 983# IFF: 151 312 FFP: 401-535 HP: 2261-2215

4-06-86 DST #7 4476-4518 (U. Cher.) wk bl died 30" 30-30-30-30 Rec. 12' M, IBHP: 625# FBHP: 535# IFF: 44-44 FFP: 44-44 HP: 2261-2215 DST #8 4500-4545 (Johnson, L. Cherokee) wk bl died 30" 30-30-30-30 Rec. 8' M, IBHP: 312# FBHP: 133# IFF: 35-35 FFP: 35-35 HP: 2031-1985

4-07-86 T.D. 4600' Ran E-log ran 111 jts. new 4 1/2" 10 1/2" casing 4522', set @ 4527' 73' off bottom, guide shoe on 14' shoe jt., insert float and centralizers on shoe jt. @ 4512', centralizers @ 4449-4380-4310, basket @ 2229' centralizer @ 2219', 18 bbl salt flush 12 bbls super K, cemented w/175 sx EA 2 10 sx RH, 60-40 posmix, 6X gel, plug down @ 7:45 pm

Formation Description

☒ Log ☒ Sample

Name Top Bottom

FORMATION TOPS:

Anhydrite 2215 + 628
B/Anhydr. 2237 + 606
Heebner 3910 - 1067
Lansing 3947 - 1104
Muncie Cr 4118 - 1275
Stark 4223 - 1380
HushPuckney 4257 - 1414
BKC 4300 - 1457
Marmaton 4334 - 1491
Pawnee 4412 - 1569
Ft. Scott 4462 - 1619
Cherokee 4484 - 1641
Mississippi 4557 - 1714
RTD 4600 - 1757

E-LOG TOPS:

Anhydrite 2178 + 663
Base Anhyd 2236 + 607
Heebner 3909 - 1066
LKC 3948 - 1103
Muncie Cr 4121 - 1278
Stark 4223 - 1380
HushPuckney 4256 - 1413
BKC 4299 - 1456
Marmaton 4334 - 1491
Pawnee 4411 - 1568
Ft. Scott 4461 - 1618
Cherokee 4486 - 1643
Mississippi 4554 - 1711
LTD 4598 - 1755

Well Log

Sand/Clay 0 657
Shale 657 2215
Anhydrite 2215 2237
Shale 2237 4257
Lime 4257 4600 RTD

ORD ☒ New ☐ Used

ector, surface, intermediate, production, etc.

Type and

Percent

Additives

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Percent Additives
Surface.....	12.1/4	8.5/8"	20#	300'	60/60 posmix.	175.sx..2%	gel 3%
Production...	7.7/8	4.1/2"	10.5#	4527'	EA2...60/40 posmix.	6%.gel	

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record

Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
2 shots per ft.	4424-4431 swab down acid w/500 gal. 15% SGA. 2.1/2 BPM.		
@ 600# max ps			

TUBING RECORD	Size	Set At	Packer at	Liner Run	☐ Yes ☒ No
	2 3/8"	4508.30'	----	no	

Date of First Production	Producing Method	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (explain).....
4-24-86		