

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

Operator: License # 5886
Name CHIEF DRILLING CO., INC.
Address 151 N. MAIN #700
WICHITA, KS. 67202
City/State/Zip

Purchaser Koch Oil Co.

Operator Contact Person F.W. SHELTON, JR.
Phone 316-262-3791

Contractor: License # 5883
Name WARRIOR DRILLING CO.

Wellsite Geologist Mitch Allen
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 ONWO: old well info as follows:

Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:

Mud Rotary Air Rotary Cable

10-6-87 10-16-87 12-11-87
Spud Date Date Reached TD Completion Date

4600' RTD 4581'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 298' feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2208' feet
If alternate 2 completion, cement circulated
from 2208' feet depth to surf. w/ 200' cmt
Cement Company Name Allied
Invoice # 50409

API NO. 15-101-21,425-0000

County Lane

NE. SE. NW Sec. 1 Twp 18S Rgn. 30 East West

3630 Ft North from Southeast Corner of Section
2970 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

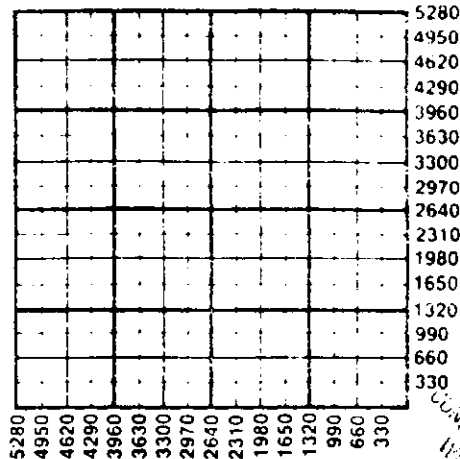
Lease Name CRAMER Well # 2

Field Name

Producing Formation Cherokee

Elevation: Ground 2839 KB 2844

Section Plat



DEC 23 1987
12-28-87
Wichita, Kansas

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
NW Sec 1 Twp 18 Rge 30 East 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.

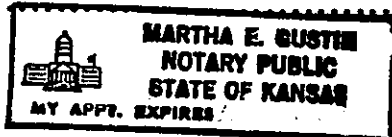
Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 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 F.W. SHELTON, JR.
Title VICE PRESIDENT Date 12-23-87

Subscribed and sworn to before me this 23 day of Dec 1987.
Notary Public Martha E. Gustin

Date Commission Expires



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

Sec. 1, Twp. 18 Rge. 30 W

Operator Name CHIEF DRILLING CO., INC. Lease Name GRAMER Well # 2

Sec. 1 Twp. 18S Rge. 30 East West County LANE

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

Formation Description
 Log Sample

10-12-87 DST #1 4221-4321 (Lans. 200-220 Pleasanton) 30-30-60-60 Rec. 600' W, chlor, 79,000 ppm, IF: wk bldg to st bl, FF: st bl, IBHP: 1119# FBHP: 1133# IFF: 125-178 FFP: 223-330
 10-13-87 DST #2 4316-4384 (Upper Marmaton-Marmaton "B") 30-30-30-30 IF: wk bl that died Rec. 15' M IBHP: 89# FBHP: 89# IFF: 44-44 FFP: 44-44 DST #3 4380-4406 (Marm C) 30-30-30-30 IF: wk bl died 15' FF: no bl, Rec. 5' M, IBHP: 53# FBHP: 44# IFF: 44-44 FFP: 44-44
 10-14-87 DST #4 4396-4435 (Up Pawnee) 30-30-30 30, wk bl died 15", Rec. 10' M, IBHP: 80# FBHP: 62# IFF: 62-62 FFP: 62-62
 10-15-87 DST #5 4484-4543 (Cherokee) 30-30-60-60 IF: wk bl bldg to very st. FF: same Rec. 900' GIP, 300' Cl GO, 41 gravity 150' W, 79,000 ppm chlor. IBHP: 1164# FBHP: 1119#, IFF: 62-89 FFP: 107-151
 10-16-87 TD 4600', Ran E-log, Ran 117 jts. 4588' new & used 4 1/2" 10# csg. set @ 4593' Float @ 4581', centralizers @ 4581', 4540', 4468', 4387', 4309', Centralizer & control basket @ 2208', cem w/200 sks, AFC, 10 bbl mud flush ahead of cement, plug down @ 12:30 pm. Final Report

FORMATION TOPS:		E-LOG TOPS:	
Anhydrite	2204 + 640	Anhydrite	2201 + 643
Base Anhydr.	2225 + 619	Base Anhydr.	2222 + 622
Heebner	3907 - 1063	Heebner	3907 - 1063
Lansing	3949 - 1105	Lansing	3945 - 1101
Muncie Cr.	4119 - 1275	Muncie Cr.	4117 - 1273
Stark	4222 - 1378	Stark	4220 - 1376
BKC	4298 - 1454	BKC	4295 - 1452
Marmaton	4334 - 1490	Marmaton	4335 - 1491
Pawnee	4408 - 1564	Pawnee	4410 - 1566
Ft. Scott	4464 - 1620	Ft. Scott	4460 - 1616
Cherokee Sh.	4489 - 1645	Cherokee Sh.	4482 - 1638
Mississippi	4556 - 1712	Mississippi	4552 - 1708
RTD	4600 - 1756	LTD	4599 - 1755

Well Log

Sand	0	655
Sand/Shale	655	1435
Shale	1435	2204
Anhydr.	2204	2225
Shale	2225	4222
Shale/Lime	4222	4430
Lime	4430	4600

RTD

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	12.1/4"	8.5/8"	20#	298'	60/40	190	2% cc. 3% gel
Production	7.7/8"	4.1/2"	10 1/2	4593'	AFC	200	10 bbl mud flush

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 sh per'	4529-4532 acidized w/250 gall. INS 1/2 BPM @ 800#		
	acidized w/1000 gall SGA 4 bbls per min @ 800#		
4 sh per'	4493-4500 set retrievable plug 4514' acid w/1000 gal 15% SGA		
	6.5 BPM @ 0#, pressure casing to 500#, mix & pump 200 sks ASC		

TUBING RECORD

Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2 3/8"	4534	None		

Date of First Production 12-11-87
 Producing Method Flowing Pumping Gas Lift Other (explain)

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	38 bbls	MCF	12 bbls	CFPB	

METHOD OF COMPLETION

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 4529-4532.....
 Used on Lease 4493-4500.....

Dually Completed
 Single Completed: AM
 SASHAN 10 3 12

CHIEF DRILLING CO., Inc.

Drilling Contractors - Oil Producers

151 N. MAIN

SUITE 700

WICHITA, KANSAS 67202

V. RICHARD HOOVER
PRESIDENT

DAILY DRILLING REPORT

(316) 262-3791

API: 15-101-21,425-0000

RIG #1

CRAMER #2
NE SE NW SEC. 1-18S-30W
LANE COUNTY, KANSAS

ELEVATION: 2839 GR
2841 DF
2844 KB

10-05-87 Moving in on location
10-06-87 Finished moving in on location
spudded in @ 5:00 pm, ran 7 jts.
8 5/8" 20#, 295' set @ 298' cem.
w/190 sks 60/40 posmix 2% cc.
3% gel, plug down @ 10:30 pm
10-07-87 Drilling plug @ 7:00 am
10-08-87 Drilling @ 2214'
10-09-87 Drilling @ 3055'
10-10-87 Drilling @ 3645'
10-11-87 Drilling @ 4010'
10-12-87 DST #1 4221-4321 (Lans. 200-220
Pleasanton) 30-30-60-60 Rec. 600'
W, chlor, 79,000 ppm, IF: wk bldg
to st bl, FF: st bl, IBHP: 1119#
FBHP: 1133# IFP: 125-178 FFP: 223-330
10-13-87 DST #2 4316-4384 (Upper Marmaton-Marm-
aton "B") 30-30-30-30 IF: wk bl that
died Rec. 15' M IBHP: 89# FBHP: 89#
IFP: 44-44 FFP: 44-44 DST #3 4380-4406
(Marm C) 30-30-30-30 IF: wk bl died 15"
FF: no bl, Rec. 5' M, IBHP: 53# FBHP:
44# IFP: 44-44 FFP: 44-44
10-14-87 DST #4 4396-4435 (Up Pawnee) 30-30-30
30, wk bl died 15", Rec. 10' M, IBHP:
80# FBHP: 62# IFP: 62-62 FFP: 62-62
10-15-87 DST #5 4484-4543 (Cherokee) 30-30-60-
60 IF: wk bl bldg to very st. FF: same
Rec. 900' GIP, 300' Cl GO, 41 gravity
150' W, 79,000 ppm chlor. IBHP: 1164#
FBHP: 1119#, IFP: 62-89 FFP: 107-151
10-16-87 TD 4600', Ran E-log, Ran 117 jts. 4588'
new & used 4 1/2" 10 1/2# csg. set @ 4593'
Float @ 4581', centralizers @ 4581', 4540',
4468', 4387', 4309', Centralizer & control
basket @ 2208', cem w/200 sks, AFC, 10 bbl
mud flush ahead of cement, plug down @
12:30 pm. Final Report

FORMATION TOPS:
Anhydrite 2204 + 640
Base Anhydr. 2225 + 619
Heebner 3907 - 1063
Lansing 3949 - 1105
Muncie Cr. 4119 - 1275
Stark 4222 - 1378
BKC 4298 - 1454
Marmaton 4334 - 1490
Pawnee 4408 - 1564
Ft. Scott 4464 - 1620
Cherokee Sh. 4489 - 1645
Mississippi 4556 - 1712
RTD 4600 - 1756

E-LOG TOPS:
Anhydrite 2201 + 643
Base Anhydr. 2222 + 622
Heebner 3907 - 1063
Lansing 3945 - 1101
Muncie Cr. 4117 - 1273
Stark 4220 - 1376
BKC 4295 - 1452
Marmaton 4335 - 1491
Pawnee 4410 - 1566
Ft. Scott 4460 - 1616
Cherokee Sh. 4482 - 1638
Mississippi 4552 - 1708
LTD 4599 - 1755

12-28-87

W. MOON TILLEN

15-101-21425-0000

CHIEF DRILLING CO., Inc.

Drilling Contractors - Oil Producers

151 N. MAIN

SUITE 700

WICHITA, KANSAS 67202

V. RICHARD HOOVER
PRESIDENT

(316) 262-3791

DAILY COMPLETION REPORT

CRAMER #2
NE SE NW SEC. 1-18S-30W
LANE COUNTY, KANSAS

- 11-25-87 Moved in Double Drum - Perforated 4529-4532 w/4 holes per ft. Swabbed down, tested 1/2 bbl. per hr. Trace of Water, acidized w/250 gallons INS 1/2 BPM @ 800#, load 71.5 bbls., swabbed 81.10 bbls.
 - 1/2 hr test 5.22 BF 67% O
 - 1/2 hr test 4.64 BF 67% O
 - 1/2 hr test 4.00 BF 70% O
- 11-30-87 2127' Fill up - 1313' O, 814' W, swabbed down
 - 1/2 hr test 2.90 BF 92% O
 Acidized w/1000 gallons SGA 4 bbls. per min. @ 800#, load 113 bbls. Swab down 94.44 bbls.
 - 1/2 hr test 4.35 BF 57% O
 - 1/2 hr test 4.35 BF 68% O
- 12-01-87 1137' Fill up, 925' O, 212' W,
 - 1/2 hr test 3.48 BF 81% O
 Perforated 4493-4500 4 sh. per ft. Set retrievable plug @ 4514'
 - 1/2 hr test 3.48 BF 73% O
 - 1/2 hr test 3.48 BF 73% O
- 12-02-87 600' Fill up, 530' O, 70' W,
 - 1/2 hr test 2.61 BF 88% O
 - 1/2 hr test 3.19 BF 73% O
 - 1/2 hr test 3.19 BF 73% O
 - 1/2 hr test 3.19 BF 73% O
 Acidized w/1000 gal 15% SGA 6.5 BPM @ 0#, 95.5 bbl load. Swab down 76.43 bbls.
 - 1/2 hr test 3.19 BF 73% O
 - 1/2 hr test 3.19 BF 73% O
- 12-03-87 Set retrievable plug @ 4100', Pressure casing to 500#. Mix & pump 200 sks ASC.
- 12-04-87 Hydro test tubing in hole
- 12-05-87 Ran in rods rig broke down
- 12-07-87 Finish running rods. Mud Anchor 29.17'
 - 142 jts. 2 3/8" 4534.00'
 - 181 3/4 rods
 - 16' polish rod
- 12-11-87 P.O.P.
- 12-20-87 Bbl. test 38 bbls. O, 12 bbls. W Final Report

DEC 28 1987
12-28-87

15-101-21425-0000

CHIEF DRILLING CO., Inc.

Drilling Contractors - Oil Producers

151 N. MAIN

SUITE 700

WICHITA, KANSAS 67202

V. RICHARD HOOVER
PRESIDENT

(316) 262-3791

October 30, 1987

Kansas Geological Society & Library
212 N. Market, Landmark Square
Wichita, Kansas 67202

RE: Cramer #2
NE SE NW Sec. 1-18S-30W
Lane Co., Ks.

Dear Sirs:

We have completed the drilling of the above captioned well as a dry hole. Enclosed are reports & logs pertaining to this well.

In accordance with rule #82-2-125D, Chief Drilling Co., Inc., operator of the above captioned well requests that all information be held in confidential custody by the Kansas Geological Society and Library for an initial period of one (1) year from date of receipt.

Sincerely,



F.W. Shelton, Jr.
Vice President

FWS/meg

DRILLING CO. INC.
12-28-87

CONFIDENTIAL