

RELEASED

FEB 1 1988
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 Suite #700
Wichita, Kansas 67202
City/State/Zip

Purchaser Koch Oil Co.

Operator Contact Person F.W. Shelton, Jr.
Phone Vice President 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 OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
11-21-86 12-01-86 12-22-86
Spud Date Date Reached TD Completion Date
.4610.RTD .4585
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 279 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2200 feet
If alternate 2 completion, cement circulated
from 2200 feet depth to 0 w/ 200 SX cmt

SIDE ONE

API NO. 15-171-20,349-00-00

County Scott

SW SW SE Sec 23 Twp 17S Rge 31 East West

330 Ft North from Southeast Corner of Section
2310 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

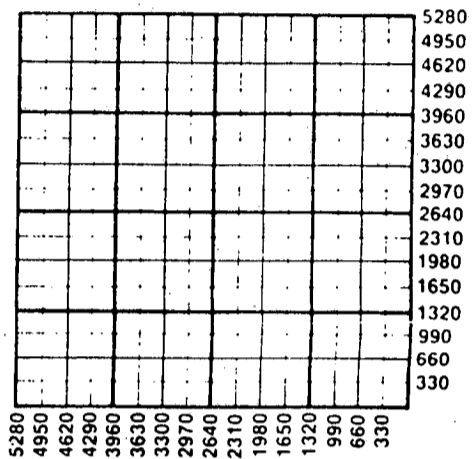
Lease Name BROWER Well # 1

Field Name

Producing Formation Lansing KC

Elevation: Ground 2917 KB 2924

Section Plat



RCUD
1-14-87

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal Repressuring
Docket #

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 NW/4 Sec 35 Twp 17 Rge 31 East West Irrigation well 160'
 Surface Water Ft North from Southeast Corner (Stream, pond etc) Ft West from Southeast Corner Sec Twp Rge East West
 Other (explain) (purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 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.

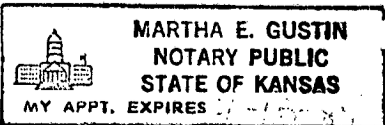
Signature F.W. Shelton, Jr., Vice President
Title Date

Subscribed and sworn to before me this 8th day of Jan 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 23 Twp 17 Rge 31



15-171-20399-00-00

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

Sec. 23 Twp. 17S Rge. 31 East West County SCOTT

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 [X] Yes [] No
Samples Sent to Geological Survey [X] Yes [] No
Cores Taken [] Yes [X] No

Formation Description [X] Log [X] Sample

11-26-86 Drilling @ 3998' DST #1 3972-4000 (Lans 35z)
30-30-30-30 IF: Fair blow throughout, FF:
Fair blow, Rec. 92' MW, IBHP: 939 FBHP: 894
IFP: 89-89 FFP: 89-89
11-27-86 DST #2 4130-4200 (Lans. 140-160z) 30-30-30-
30 IF: wk bl FF: no bl., Rec. 120' MW IBHP:
1001 FBHP: 965 IFP: 71-71 FFP: 71-71
11-28-86 DST #3 4228-4305 (Lans. 200-220z) 30-30-45-
45 IF: very strong blow, FF: very strong bl,
Rec. 92' GIP, 2150' total fluid, 320' GCMO,
7% G, 11% M, 82% O, 1340' CGO, 36 gr @ 60'
490' W, 39,000 ppm chl. IBHP: 1074# FBHP:
1074#, IFP: 241-625 FFP: 715-876
11-29-86 DST #4 4307-4338 (Pleasanton) 30-30-60-45,
IF: very strong blow, FF: very strong blow,
Rec. 92' GIP, 150' CGO, 1400' SW, 41,000
ppm chl. IBHP: 1001 FBHP: 1001 IFP: 133-357
FFP: 446-670 DST #5 4374-4388 (Marmaton) 30-
30-60-45 IF: very strong blow, FFP: strong
blow died, Rec. 2300' SW, 42,000 ppm chl.
IBHP: 1000 FBHP: 1000, IFP: 428-939 FFP:
1000-1000
11-30-86 DST #6 4422-4495 (Pawnee Ft.Scott) 30-30-30
-30 IF: very wk blow, FF: no blow, Rec. 10'
M, IBHP: 80 FBHP: 80 IFP: 80-80 FFP: 80-80
12-01-86 DST #7 4516-4561 (Johnson z) 30-30-90-60'
IF: strong blow FF: strong blow, Rec. 650'
GIP, 460' CGO, IBHP: 1028 FBHP: 1010 IFP:
71-107 FFP: 125-196 Ran E-log
12-02-86 Ran 111 jts. 4614' used 10.5# csg. set @
4600', 1' off bottom, centralizers @ 4585'
4502', 4333', 4249', 2277', basket @ 2277'
float @ 4585', cem w/175 sx ASC, 20 bbls.
mud flush ahead cem, plug down 11:00 am

FORMATION TOPS:

Table with 2 columns: Formation Name, E-LOG. Includes Anhydrite, B/Anhydrite, Wabunsee, Heebner, LKC, Muncie Cr, Stark, Hush Puckney, BKC, Marmaton, Pawnee, Ft. Scott, Cherokee Sh, Johnson Zone, Mississippi, LTD, RTD.

E-LOG

Table with 2 columns: Formation Name, E-LOG. Includes Anhydrite, B/Anhydr., Wabunsee, Heebner, Lansing, Muncie Cr, Stark, Hush Puckney, BKC, Marmaton, Pawnee, Ft Scott, Cherokee Sh, Johnson Zone, Mississippi, LTD.

Well log

Table with 3 columns: Formation Name, Depth, E-LOG. Includes Sand/Clay, Shale, Anhydrite, Shale, Lime/shale, Lime.

CASING RECORD [X] New [] Used

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

Table with 8 columns: Purpose of String, Size Hole, Size Casing, Weight, Setting, Type of, #Sacks, Type and Percent. Includes Surface and production rows.

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record

Table with 4 columns: Shots Per Foot, Specify Footage of Each Interval Perforated, (Amount and Kind of Material Used), Depth. Includes acidizing records.

TUBING RECORD

Size 2 3/8" Set At 4,473.81 Packer at --

Liner Run [] Yes [X] No

Date of First Production 12-22-86

Producing Method

[] Flowing [X] Pumping [] Gas Lift [] Other (explain).....

Estimated Production Per 24 Hours

Table with 5 columns: Oil, Gas, Water, Gas-Oil Ratio, Gravity. Includes 'RELEASED' stamp.

METHOD OF COMPLETION

Production Interval

Disposition of gas Vented Sold Used on Lease

FROM CONFIDENTIAL

[] Open Hole [X] Perforation [] Other (Specify)

[] Dually Completed [] Commingled [X] Single

..4532-4534... 4541-4546 ..4272-4275...

MAR 11 1987

RELEASED

FEB 11 1988

FROM CONFIDENTIAL

State

CHIEF DRILLING CO., Inc.

Drilling Contractors - Oil Producers

151 N. MAIN BUILDING
SUITE 700

WICHITA, KANSAS 67202

V. RICHARD HOOVER
PRESIDENT

(316) 262-3791

DAILY DRILLING REPORT

API: 15-171-20,349-00-00

RIG # 2

#1 BROWER (#2305)
SW SW SE 23-17S-31W
SCOTT COUNTY, KS.

ELEVATION: 2917 GR
2921 DF
2924 KB

11-21-86 Moved in on location, spudded in @ 2:45 pm
ran 7 jts. 270' new 20# 8 5/8" set @ 279'
cem w/150 sks 60/40 posmix 3% cc. 2% gel
plug down @ 8:15 pm,

11-22-86 Drilling @ 710'

11-23-86 Drilling @ 2450'

11-24-86 Drilling @ 3030'

11-25-86 Drilling @ 3477'

11-26-86 Drilling @ 3998' DST #1 3972-4000 (Lans 35z)
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Fair blow, Rec. 92' MW, IBHP: 939 FBHP: 894
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4600', 1' off bottom, centralizers @ 4585'
4502', 4333', 4249', 2277', basket @ 2277'
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FORMATION TOPS:

Anhydrite	2282 +	642
B/Anhydrite	2301 +	623
Wabunsee	3532 -	608
Heebner	3913 -	989
LKC	3945 -	1021
Muncie Cr	4132 -	1208
Stark	4230 -	1306
Hush Puckney	4269 -	1345
BKC	4309 -	1385
Marmaton	4346 -	1422
Pawnee	4433 -	1509
Ft. Scott	4479 -	1555
Cherokee Sh	4501 -	1577
Johnson Zone	4538 -	1614
Mississippi	4570 -	1646
RTD	4610 -	1686

E-LOG

Anhydrite	2268 +	656
B/Anhydr.	2286 +	638
Wabunsee	3520 -	596
Heebner	3906 -	982
Lansing	3944 -	1020
Muncie Cr	4122 -	1198
Stark	4220 -	1296
Hush Puckney	4258 -	1335
BKC	4299 -	1375
Marmaton	4336 -	1412
Pawnee	4425 -	1501
Ft Scott	4470 -	1546
Cherokee Sh	4493 -	1569
Johnson Zone	4532 -	1608
Mississippi	4561 -	1637
LTD	4601 -	1677

STATE OF KANSAS

JAN 14 1988

CONSERVATION DIVISION
WICHITA, KANSAS

15-171-20349-00-00

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PRESIDENT

DAILY COMPLETION REPORT

(316) 262-3791

#1 BROWER
SW SW SE SEC. 23-17S-31W
SCOTT COUNTY, KANSAS

- 12-09-86 Cement annulus w/200 sks lite cement
- 12-10-86 Ran temp surevey - shows cement from 0 to 2200', could not get logging tool to bottom, Ran sand pump and cleaned out from 4539 to 4585, ran correlation, cement and collar log, swab down csg. perf. 2 shots per ft. expendable guns from 4532-4534-4541-4546 test natural
 - 1/2 hr test .14 bbls., 30 gr O
 - 1/2 hr test .14 bbls., O
- 12-11-86 995' fill up, O 1/2 hr .87 bbls., O 3l+ gravity, acidized w/500 gallons INS 1/2 BPM @ 475#, max psi, total load 84.5 bbls., swab down 80.5 bbls.,
 - 1/2 hr test 5.80 bbls., 95% O
 - 1/2 hr test 3.48 bbls., 95% O
 - 1/2 hr test 2.90 bbls., 95% O
 - 1/2 hr test 2.32 bbls., 95% O
 - 1/2 hr test 2.32 bbls., 95% O
 - 1/2 hr test 2.32 bbls., 95% O
 - 1/2 hr test 2.03 bbls., 95% O
 - 1/2 hr test 2.03 bbls., 95% O
- 12-12-86 960' fillup, trace W, acid w/1000 gal, 15% SGA 3 BPM @ 300# max psi, 108.5 bbls., total load, let set 1 hr. swab down 86.90 bbls.,
 - 1/2 hr test 2.32 bbls., 88% O
 - 1/2 hr test 2.32 bbls., 90% O
 - 1/2 hr test 1.74 bbls., 92% O
 - 1/2 hr test 1.74 bbls., 95% O
 - 1/2 hr test 1.74 bbls., 95% O
- 12-15-86 990' fill up, O w/trace, perf. 2 sh per ft. expendable 4272-4275 set retrievable plug @ 4350' swab down csg to 4250'
 - 1/2 hr test 2.90 bbls., trace W
 - 1/2 hr test 6.67 bbls., trace W
 - 1/2 hr test 8.12 bbls., 58% O

pull from 3500'

 - 1/2 hr test 4.35 bbls., 69% O
 - 1/2 hr test 4.35 bbls., 69% O
 - 1/2 hr test 4.35 bbls., 63% O
 - 1/2 hr test 4.93 bbls., 58% O
 - 1/2 hr test 4.95 bbls., 60% O

pull from 3200'

Mud Anchor	30.50
139 jts. 2 3/8"	4,419.31
4 - 6' subs	24.00
Total	4,473.81

2 x 1 1/2 x 12 THD insert pump
177 3/4 rods

- 12-16-86 top of fluid @ 2230' from top 667' free O, POH w/retrievable plug set permanent plug @ 4480'
- 12-22-86 P.O.P.