

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

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

.11-6-86 .11-16-86 .12-10-86
Spud Date Date Reached TD Completion Date

.RTD. 4595 .4568'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 255' feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2281 feet
If alternate 2 completion, cement circulated
from 0 feet depth to 2281 w/ 200 SX cmt
Lite

API No. 15- 171-20,348-00-00
County SCOTT
NW SW NE Sec 23 Twp 17S Rge 31 East West

3630 Ft North from Southeast Corner of Section
2310 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

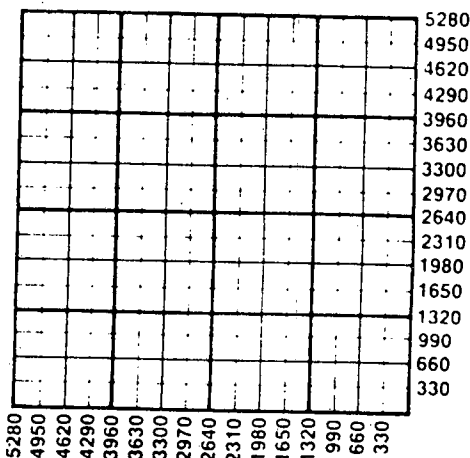
Lease Name HULING Well # 1

Field Name Manning Twist

Producing Formation Johnson

Elevation: Ground 2910, 2913 KB 2917

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 #

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

Subscribed and sworn to before me this 17th day of December 1986.
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)

DEC 18 1986 RWD

Sec 23 Twp 17 Rge 31

Operator Name Chief Drilling Co., Inc. Lease Name HULLING 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

11-10-86 Drilling @ 3574' DST #1 3840-3926 (Dread & Toronto) 30-30-30-30 IF: very st blow, FF: very st blow, Rec. 2200' W, chl. 41,000 ppm IBHP: 1101# FBHP: 1119#, IFF: 312-831 FFP: 939-1038
11-11-86 Preparing to drill ahead
11-12-86 Circulating @ 4226' DST #2 4125-4262 (Lans. 140-200) 30-30-45-45 IF: v st bl FF: v st bl, Rec. 1380' MSW, chl. 44,000 ppm, IBHP: 1028# FBHP: 1028# IFF: 151-401 FFP: 428-670
11-13-86 DST #3 4261-4330 (Lans 220 & Pleasanton) 30-30-45-45 IF: v st bl, FF: v st bl, Rec. 2238' W, chl. 45,000 ppm, IBHP: 1019# FBHP: 1019# IFF: 348-894 FFP: 939-983
11-14-86 DST #4 4367-4381 (Marm B) 30-30-60-45 IF: v st bl, FF: v st bl, Rec. 2100' SW, chl. 46,000 ppm IBHP: 1028# FBHP: 1028# IFF: 223-759 FFP: 804-1028
11-15-86 DST #5 4415-4525 (Pawnee, Ft. Scott, Up-Cherokee) 30-30-30-30 IF: wk bl died 26" FF: no bl. Rec. 18' M, no show O, IBHP: 759# FBHP: 670# IFF: 44-44 FFP: 44-44
DST #6 4521-4560 (Johnson) 30-30-90-60 IF: st bl off bottom of bucket in 5", FF: st bl throughout, Rec. 360' BIP, 550' CGO, Grav. 41 @ 60 deg. 360' W, chl. 53,000 ppm IBHP: 840# FBHP: 822# IFF: 107-178 FFP: 223-419
11-16-86 Ran E-log, Ran 112 jts new 4 1/2" csg. 4590' 10.5 #, set @ 4589', centralizers @ 4535-4453-4240-3917-3876-2281- cement control basket @ 2281, float @ 4535, cem w/200 sks ASC, 10 bbls slush ahead of cem. Plug down @ 10:45 pm

Table with columns: Name, Top, Bottom. Includes FORMATION TOPS and E-LOG TOPS lists for various geological formations like Anhydrite, Wabunsee, Heebner, etc.

Well Log table with columns: Formation Name, Top, Bottom. Includes Clay, Shale, Anhydr., Shale, Lime with their respective depths.

CASING RECORD [X] New [] Used Report all strings set-conductor, surface, intermediate, production, etc.

Table with columns: 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. Includes data for Surface production and slush.

PERFORATION RECORD table with columns: Shots Per Foot, Specify Footage of Each Interval Perforated, Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used), Depth. Includes data for 2 shots per ft.

TUBING RECORD Size 2 3/8" Set At 4567.34 Packer at Liner Run [X] Yes [] No

Date of First Production 12-10-86 Producing Method [] Flowing [X] Pumping [] Gas Lift [] Other (Specify) 1 1/2" (exp.)

Table with columns: Oil, Gas, Water, Gas Oil Ratio, Gravity. Includes Estimated Production Per 24 Hours: 22 Bbls Oil, 60 Bbls Water, 0 MCF Gas.

METHOD OF COMPLETION Production Interval

Disposition of gas: [] Vented [] Sold [] Used on Lease [] Open Hole [X] Perforation [] Other (Specify) 4530-4532 4537-4543 [] Dually Completed [] Commingled [X] single

WELLS LOG BY: J. M. ...

FROM CONFIDENTIAL

12 M 1 E 1988

RELEASED

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 15-171-20,348-00-00
RIG #2

HULING #1 (#2303)
NW SW NE 23-17S-31W
Scott County, Ks.

ELEVATION: 2910 GR
2913 DF
2917 KB

11-06-86 Moved in on location, spudded in @ 1:30pm
ran 246' new 20# 8 5/8" set @ 255', cem.
w/150 sx 60/40 posmix 2% gel, 3% cc,
plug down @ 7:00 pm

11-07-86 Drilling @ 850'

11-08-86 Drilling @ 2316'

11-09-86 Drilling @ 3093'

11-10-86 Drilling @ 3574' DST #1 3840-3926
(Oread & Toronto) 30-30-30-30 IF: very
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4240-3917-3876-2281- cement control basket @
2281, float @ 4535, cem w/200 sks ASC, 10 bbls
slush ahead of cem. Plug down @ 10:45 pm

FORMATION TOPS:

Anhydrite	2282 + 635
B/Anhydr	2302 + 615
Wabaunsee	3530 - 613
Heebner	3905 - 988
Lansing	3943 - 1026
Muncie Creek	4127 - 1210
Stark	4223 - 1306
BKC	4301 - 1384
Marmaton	4344 - 1427
Pawnee	4426 - 1509
Ft. Scott	4475 - 1558
Cherokee Sh	4498 - 1581
Johnson	4535 - 1618
Mississippi	4567 - 1650
RTD	4595 - 1678

E- LOG TOPS:

Anhydrite	2271 + 646
B/Anhydrite	2290 + 627
Wabunsee	3520 - 603
Heebner	3901 - 984
Toronto	3912 - 995
Lansing	3941 - 1024
Muncie Cr	4120 - 1203
Stark	4215 - 1298
Hush Puckney	4255 - 1338
BKC	4297 - 1380
Marmaton	4335 - 1418
Pawnee	4422 - 1505
Ft. Scott	4469 - 1552
Cherokee Sh	4492 - 1575
Johnston	4530 - 1613
Mississippi	4562 - 1645
	4590 - 1673

DEC 18 1988

CONSULTING DIVISION
Wichita, Kansas

15-171-20348-00-00

FROM CONFIDENTIAL

APR 15 1988

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Drilling Contractors - Oil Producers

151 N. MAIN BUILDING

SUITE 700

WICHITA, KANSAS 67202

V. RICHARD HOOVER
PRESIDENT

DAILY COMPLETION REPORT

(316) 262-3791

HULING #1
NW SW NE SEC. 23-17S-31W
SCOTT COUNTY, KANSAS

- 11-24-86 Pressure casing to 500#, mix & pump 200 sks lite cement and down backside of csg.
- 11-25-86 ran temperature survey, ran correlation, bond and collar log, swab csg. down to 4000', perf. 2 sh per ft, expendable guns from 4530-4532 and 4537-4543 swab down csg.
 - 1/2 hr test .87 bbls., 40% O
 - 1/2 hr test .87 bbls., 35% O
 - 1/2 hr test .87 bbls., 38% O
 - 1/2 hr test .87 bbls., 38% O
 - 1/2 hr test .87 bbls., 40% O
- 11-26-86 990' fill up, 312' O, 678' W, acid w/500 gal 15% INS, 1 BPM @ 200# max psi, total load 84 bbls., swab down 75.80 bbls.
 - 1/2 hr test 5.51 bbls., 58% O
 - 1/2 hr test 5.22 bbls., 79% O
 - 1/2 hr test 5.22 bbls., 86% O
 - 1/2 hr test 5.80 bbls., 95% O
 - 1/2 hr test 5.22 bbls., 88% O
 - 1/2 hr test 5.22 bbls., 75% O
 - 1/2 hr test 5.22 bbls., 80% O
- 12-02-86 5 day fill up, 1880' fill up, 637' O 1243' W
 Ran 140 jts tubing 2 3/8" 4530.44
 Mud Anchor 30.90
 1-6' sub 6.00

Total 4567.34
- 2 x 1 1/2 x 12 THD insert pump
- 181 3/4 sucker rods
- 2 - 6' pony rods
- 1 - 2' pony rods
- 1 - 16' pony rods
- 12-10-86 P.O.P.
- 12-15-86 Bbl. test 22 Bbls. O, 60 Bbls. W

DEC 18 1987

WICHITA, KANSAS