

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

Sec. 30 Twp. 11S Rge. 24 East West County Trego

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

[] Log [X] Sample

Name Top Bottom

DST #1 (Top of Lans.) 3815-3838
45-45-45-45, Fair blow throughout,
Rec. 200' MW, IBHP: 1210#, FBHP: 1155#,
IFP: 53-89 FFP: 89-133
DST #2 (Lans. 35' zone) 3840-3860
45-45-45-45 fair blow on both opens,
Rec. 60' Heavy Tarry Oil, 30' Mud, IBHP:
1255#, FBHP: 1210#, IFP: 44-71 FFP: 71-89
DST #3 (Lans. 50' & 70' zone) 3860-3900
30-30-30-45 strong blow on both opens
Rec. 280' MW, IBHP: 1210#, FBHP: 1210#
IFP: 89-133 FFP: 160-178 Drilling ahead
DST #4 3895-3915(Lans. 90' zone) 45-45-
60-60 fair blow on both opens, Rec. 80'
tarry O; 60' TO&M; 120' W; IBHP: 1273#
FBHP: 1273#, IFP: 62-80, FFP: 89-133
3992' & circulating DST #5 3940-3992
(140-160 LKC) 30-30-90-60 fair blow on
both opens, Rec. 90' MW w/skim of O,
IBHP: 133#, FBHP: 178#, IFP: 89-89 FFP:
89-89
DST #6 3989-4077 (LKC 180) 30-30-30-30
wk. blow died in 24 min., final blow
no blow, Rec. 20' M, IBHP: 68#, FBHP:
68#, IFP: 44-44 FBHP: 44-44 DST #7
4010-4070; Lans. 200-220 30-30-30-30
Initial flow, wk. blow died in 16 min.
Rec. 10' M; IBHP: 178 FBHP: 151, FP: 80-80
T.D. 4070' D & A Plugged w/185 sx. 50-50

FORMATION TOPS:
Anhydrite 2072 + 398
Base Anhydr. 2115 + 355
Heebner 3786 - 1316
Toronto 3806 - 1336
Lansing 3819 - 1349
Muncie Creek 3945 - 1475
Stark 4013 - 1543
BKC 4059 - 1589
RTD 4070 - 1600

Well log

Shale 0 235
Clay/shale 235 1565
Shale 1565 2072
Anhydr. 2072 2115
Shale 2115 3819
Lime 3819 4070 RTD

CASING RECORD [XX] New [] Used

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

Table with 8 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. Row 1: Surface, 12 1/4, 8 5/8", 20#, 262', 60-40 poxm, 150 sks. 2% gel, 3% c.

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record

Table with 3 columns: Shots Per Foot, Specify Footage of Each Interval Perforated, (Amount and Kind of Material Used), Depth. The table is mostly empty with diagonal lines.

TUBING RECORD Size Set At Packer at Liner Run [] Yes [] No

Date of First Production Producing Method [] Flowing [] Pumping [] Gas Lift [] Other (explain)

CONFIDENTIAL

CHIEF DRILLING CO., Inc.

Drilling Contractors - Oil Producers

SUITE 905 CENTURY PLAZA

WICHITA, KANSAS 67202

DAILY DRILLING REPORT

API: 15-195-21,677

RELEASED

Date: JUN 1 1986

FROM CONFIDENTIAL

30-11-24W

(316) 262-3791

V. RICHARD HOOVER
PRESIDENT

RIG #1

McINTOSH #1 (#1152)
NE SW NE Sec. 30-11S-24W
Trego County, KansasELEVATION: 2465' Gr.
2467' D.F.
2470' K.B.

2-11-85 Moving in on location

2-12-85 Finished moving in, Spudded in @ 11:00 a.m. ran 6 jts. new 20#, 8 5/8" casing, 254', set @ 262', Cemented w/150 sks of 60-40 posmix, 2% gel, 3% c.c., started @ 3:00 p.m. finished @ 3:45 p.m.

2-13-85 Drilling @ 1100'

2-14-85 Drilling @ 2579'

2-15-85 Drilling @ 3170'

2-16-85 DST #1 (Top of Lans.) 3815-3838
45-45-45-45, Fair blow throughout, Rec. 200' MW, IBHP: 1210#, FBHP: 1155#, IFP: 53-89 FFP: 89-133

2-17-85 DST #2 (Lans. 35' zone) 3840-3860
45-45-45-45 fair blow on both opens, Rec. 60' Heavy Tarry Oil, 30' Mud, IBHP: 1255#, FBHP: 1210#, IFP: 44-71 FFP: 71-89

2-18-85 DST #3 (Lans. 50' & 70' zone) 3860-3900
30-30-30-45 strong blow on both opens Rec. 280' MW, IBHP: 1210#, FBHP: 1210# IFP: 89-133 FFP: 160-178 Drilling ahead
DST #4 3895-3915 (Lans. 90' zone) 45-45-60-60 fair blow on both opens, Rec. 80' tarry O; 60' TO&M; 120' W; IBHP: 1273# FBHP: 1273#, IFP: 62-80, FFP: 89-133

2-19-85 3992' & circulating DST #5 3940-3992 (140-160 LKC) 30-30-90-60 fair blow on both opens, Rec. 90' MW w/skim of O, IBHP: 133#, FBHP: 178#, IFP: 89-89 FFP: 89-89

2-20-85 DST #6 3989-4077 (LKC 180) 30-30-30-30 wk. blow died in 24 min., final blow no blow, Rec. 20' M, IBHP: 68#, FBHP: 68#, IFP: 44-44 FBHP: 44-44 DST #7 4010-4070; Lans. 200-220 30-30-30-30 Initial flow, wk. blow died in 16 min. Rec. 10' M; IBHP: 178 FBHP: 151, FP: 80-80

2-21-85 T.D. 4070' D & A Plugged w/185 sx. 50-50 posmix, 6% gel, 3% cc. 1st plug @ 2100' w/25 sx. 2nd plug @ 1165' w/100 sx. 1 sx. flow seal, 3rd plug @ 270' w/40 sx., solid bridge @ 40' w/10 sx. 10 sx. in rat hole started @ 6:15 a.m. Comp. 8:30 a.m.

FORMATION TOPS:

| | | | |
|--------------|------|---|------|
| Anhydrite | 2072 | + | 398 |
| Base Anhydr. | 2115 | + | 355 |
| Heebner | 3786 | - | 1316 |
| Toronto | 3806 | - | 1336 |
| Lansing | 3819 | - | 1349 |
| Muncie Creek | 3945 | - | 1475 |
| Stark | 4013 | - | 1543 |
| BKC | 4059 | - | 1589 |
| RTD | 4070 | - | 1600 |

MAR 2 1985

State Geological Survey
WICHITA BRANCH

JUN 0 1986

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

FEB 27 1985