

A. SCOTT RITCHIE

SUITE 950
125 NORTH MARKET
WICHITA, KANSAS 67202

TELEPHONES
BUS.: 267-4375
RES.: 684-4354

CONSULTING GEOLOGIST
INDEPENDENT PRODUCER

#1 Bromwell
C W/2 NE/4
Sec. 18-33s-20w
Meade County, Kansas
Bromwell Prospect
1978 Program

DRILLING REPORT

Elevation: 2731' GL ~~XXXXXXX~~ Corrected: 2741' K.B.

12-5-78 Moved in and rigged up rotary tools. Spud at 7:45 PM.

12-6-78 Drilling at 1000' at 7:00 AM. Circulating at 1504' by 2:10 PM.
Set 37 joints (1485') of 23# 8-5/8" casing at 1497' with 400 sacks
2%CC and 200 sacks 3%CC. Plug down at 11:30 PM.

12-7-78 Waiting on cement.

12-8-78 Drilling at 2385'.

12-09-78 Drilling at 2970'.

12-10-78 Drilling at 3558'.

12-11-78 Drilling at 4014'.

12-12-78 Drilling at 4450'.

12-13-78 Drilling at 4817'.

12-14-78 Drilling at 5182'. Show of gas on
gas detector in Marmaton from 5117'
to 5128'. Preparing to DST from
5114' to 5130' (Marmaton) with
straddle packers.

12-15-78 Drill Stem Test #1 from 5114'-5130'
(Marmaton) Weak to fair blow off
bottom. Recovered 800' gas in pipe,
120' oil and gas cut mud, 60' oil
cut salt water.
IFP: 68-68#/30" ; ISIP: 1455#/60"
FFP: 85-119#/60"; FSIP: 1558#/120"
Drilling at 5247'.

12-16-78 Drilling at 5623'.

SAMPLE TOPS

Heebner	4334' (-1593)	4' high
Toronto	4354' (-1613)	
Lansing	4472' (-1731)	
Marmaton	5098' (-2357)	6' high
Morrow Sh.	5602' (-2861)	
Morrow Sandy Ls.	5613' (-2872)	
Morrow Sand	5641' (-2900)	
Miss. (Chester)	5661' (-2920)	
RTD	5720' (-2979)	

ELECTRIC LOG TOPS

Heebner	4334' (-1593)	
Toronto	4352' (-1612)	
Lansing	4470' (-1729)	
Marmaton	5093' (-2352)	
Morrow Shale	5606' (-2865)	
Morrow "A" Sdy. Ls.	5615' (-2874)	tight
Morrow "B" Sand	5642' (-2901)	
Morrow "C" Sand	5656' (-2915)	1' low
Miss. (Chester)	5672' (-2931)	
LTD	5721' (-2980)	

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- 12-17-78 Drill Stem Test #2 from 5584'-5644' (Morrow Sandy Limestone)
Recovered 20' mud. Pressures did not record because clocks stopped.
- 12-18-78 Drill Stem Test #3 from 5585'-5690' (Morrow Sand) 30/60/90/120
Gas to surface in 10". Through a 1½" orifice, gas guaged:
132 MCF/15"; 158 MCF/20"; 170 MCF/25"; 181 MCF/30".
Second Opening: Gas to surface in 10", guaged 184 MCF;
197 MCF/20"; 209 MCF/30"; 220 MCF/40"; 220 MCF/50";
231 MCF/60"; 231 MCF/70"; 241 MCF/80"; 241 MCF/90".
Recovered 200' gas cut mud.
IFP: 102-119#/30" ; ISIP: 273#/60"
FFP: 119-119#/90" ; FSIP: 273#/120"
- 12-19-78 Drill Stem Test #4 from 5586'-5647' (Morrow "B" Sand) Straddle
test. Recovered 20' mud, no shows.
IFP: 65-81#/30" ; ISIP: 147#/45"
FFP: 114-131#/30" ; FSIP: 196#/45"
- RTD 5720'. Log TD 5721'. Plugged and abandoned.