

ORIGINAL

CHUCK "DUSTY" RHOADES

Consulting Geologist

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Wakeeney, Kansas 67672

API #15-097-20639

K C C

MAR 01 1994

GEOLOGICAL REPORT

THE MAURICE L. BROWN COMPANY & I. WAYNE WOOLSEY

NO. 1 YOST

C SW SE SEC 26-T30S-R18W

KIOWA COUNTY, KANSAS

RECEIVED  
KANSAS CORPORATION COMMISSION

DEC 13 1994

CONSERVATION DIVISION  
WICHITA, KS

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THE MAURICE L. BROWN COMPANY & I. WAYNE WOOLSEY  
 NO. 1 YOST  
 C SW SE SEC 26-T30S-R18W  
 KIOWA COUNTY, KANSAS

ELEVATIONS: 2190 KELLY BUSHING  
 2179 GROUND LEVEL

CONTRACTOR: Abercrombie Drlg., Rig 11

COMMENCED: September 27, 1980  
 COMPLETED: October 10, 1980

ROTARY TOTAL DEPTH: 5056 feet  
 LOGGED TOTAL DEPTH: 5053 feet

SURFACE PIPE: 8 5/8" 24# @ 568' w/250 sx HLC and 150 sx Class A,  
 plus additives

PRODUCTION PIPE: 5½" Casing 2/150 sx HLC and 100 sx 65-35 Pozmix  
 plus additives

LOGS: Gearhart:  
 1. Comp Dens/Comp Neut-Gamma Ray-Cal  
 2. Dual Induction - Laterology  
 3. Wel

## DAILY PENETRATION RATE:

September 29, 1980	0700	1285 ft. Drlg.
September 30, 1980	"	2440 ft. Drlg.
October 1, 1980	"	2780 ft. Drlg.
October 2, 1980	"	3248 ft. Drlg.
October 3, 1980	"	3720 ft. Drlg.
October 4, 1980	"	4100 ft. Drlg.
October 5, 1980	"	4435 ft. Drlg.
October 6, 1980	"	4802 ft. Drlg.
October 7, 1980	"	4922 ft. Drlg.
October 8, 1980	"	4985 ft. Drlg.
October 9, 1980	"	5056 ft. Drlg.
October 10, 1980	"	5056 ft. Drlg.

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## REMARKS:

All measurements are from Kelly Bushing (2190 feet). RTD was 5056 feet, LTD was 5053 feet (-2863).

Two drill stem tests were taken covering the Marmaton "X" and Mississippian zones.

One foot drilling time was plotted from 4100 feet to TD. Ten foot samples were saved from 4100 feet to TD.

Two straps were taken at 4922 feet, and both were inconclusive.

## FORMATIONS:

The following are the depths and datums of formation tops encountered as determined by sample and electrical/Nuclear log analysis.

<u>FORMATION</u>	<u>SAMPLE</u>	<u>LOG</u>	<u>DATUM</u>
Heebner	4229	4227	-2037
Brown Lime	4394	4389	-2199
Lansing	4408	4404	-2214
Base/Kansas City	4826	4821	-2631
Marmaton	4838	4833	-2643
Marmaton 'X'	4882	4876	-2686
Cherokee	4971	4968	-2778
Rw Mississippi	5028	5026	-2836
S Mississippi	5042	5040	-2850
TD	5056	5053	-2863

## SPECIAL NOTE:

The electrical and strip log varied as much as eight feet during the well.

## DRILL STEM TESTS:

A geological log is included with this report and is considered a part of it. Please refer to it for sample descriptions, straight hole tests, and circulation for samples information. The following are drill stem test results.

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## DRILL STEM TESTS (Cont'd):

Marmaton 'X', 4882 feet (2686 EL)DST NO. 1  
4883-4922 feet

Open 60 minutes. No blow for 15 seconds. Strong blow in one minute. Gas to surface in 45 minutes. Shut-in 60 minutes. Open 60 minutes, gas immediately. Shut-in 90 minutes. Recovered 550 feet free gassy oil, 50 feet heavy gassy-oil cut mud.

Initial Hydrostatic Head	2525 psi
Initial Flow Pressure	62-103 psi
Initial Shut-in Pressure	1614 psi
Final Flow Pressure	103-175 psi
Final Shut-in Pressure	1583 psi
Final Hydrostatic Head	2517 psi
Temperature	114 degrees

	Time(Min)	Choke	PSI	Rate(mcfpd)
First Open	55	1/2"	3	59.2
	60	"	1	33.9
Second Open	5	1/4"	10	30.3
	10	"	14	37.6
	15	"	14	37.6
	20	"	14	37.6
	25	"	15	39.2
	30	"	15	39.2
	35	"	15	39.2
	40	"	15	39.2
	45	"	15	39.2
	50	"	14	37.6
	55	"	14	37.6
	60	"	14	37.6

Mississippian, Rw&S, 5042 feet (-2850 EL)DST NO. 2  
5000-5056

Open 60 minutes. Strong blow in 10 seconds. Gas to surface in 4 minutes. Shut-in 60 minutes. Open 60 minutes, gas immediately, Shut-in 120 minutes. Recovered 70 feet gas cut mud.

Initial Hydrostatic Head	2598 psi
Initial Flow Pressure	134-164 psi
Initial Shut-in Pressure	863 psi
Final Flow Pressure	164-164 psi
Final Shut-in Pressure	863 psi
Final Hydrostatic Head	2577 psi
Temperature	104 degrees