

Cincris Energy Co.
#1 Rathbun

80' N C SE NW
Section 11-18S-14W
Barton County, Kansas

5 1/2" PRODUCTION CASING SET

CONTRACTOR: Mohawk Drilling Co.
COMMENCED: February 20, 1984
COMPLETED: February 25, 1984
ELEVATIONS: 1927' K.B., 1920' D.F., 1917' G.L.
CASING PROGRAM: Surface: 8 5/8" @ 348'
Production: 5 1/2" @ 3460'
SAMPLES: Samples examined from 2900' to the R.T.D.
DRILLING TIME: One (1) foot drilling time recorded by
geolograph 2900' to the R.T.D.
MEASUREMENTS: All depths measured from the Kelly Bushing
ELECTRIC LOG: Radiation Guard by Wire Tech
FORMATION TESTING: There were two (2) drill stem tests run by
Cheney Testers

<u>FORMATION</u>	<u>ELECTRIC LOG DEPTH</u>	<u>SUB SEA DATUM</u>
Anhydrite	2863	+1064
Heebner	3084	-1157
Toronto	3094	-1167
Douglas	3105	-1178
Brown Lime	3158	-1231
Lansing	3167	-1240
East/Kansas City	3356	-1429
Conglomerate	3371	-1444
Arbuckle	3407	-1480
R.T.D.	3460	-1533
L.T.D.	3462	-1535

All measurements are corrected to Electric Log measurements.

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

LANSING SECTION

3167-3180	Limestone, cream, fossiliferous, chalky, poor visible porosity, no shows
3185-3194	Limestone, white, oolitic, spotty inter-crystalline porosity, no shows
3198-3206	Limestone, white, slightly fossiliferous, fair pin-point porosity, black dead stain, weak show of free oil
3210-3222	Limestone, tan, dense, cherty, poor visible porosity, no shows
3228-3240	Limestone, gray, oolitic, sub-oocastic, good oocastic porosity, fair stain, fair saturation, good odor, fair show of free oil

DRILL STEM TEST #1 3179-3239

Open: IF 45"
FF 45"
Blow: Strong
Recovery: 950' gas in pipe, 10' clean gassy oil,
20' gassy oily water, 460' gassy water
Pressures: ISIP 929 psi
FSIP 909 psi
IFP 49-158 psi
FFP 198-238 psi
HSH 1625-1596 psi

3242-3255 ~~Limestone, white, oocastic, fair oocastic~~
~~porosity, spotty brown stain, fair odor,~~
~~fair show of free oil~~

3260-3270 Limestone, white, dense, chalky, poor visible
porosity, no shows

3280-3290 Limestone, gray, oolitic, sub-oocastic,
spotty oocastic porosity, no shows

3291-3298 Limestone, gray, dense, cherty, slightly
fossiliferous, poor visible porosity, no
shows

3304-3315 Limestone, white, fine to medium crystalline,
cherty in part, poor visible porosity, no
shows

3325-3332 Limestone, tan to gray, finely crystalline,
cherty, poor visible porosity, no shows

3340-3350 Limestone, white, medium crystalline, fair
pin-point porosity, brown stain, fair odor,
weak show of free oil

ARBUCKLE SECTION

3407-3410 Dolomite, white, fine to medium crystalline,
sucrosic, brown stain, fair inter-crystalline
porosity, fair odor, fair show of free oil

DRILL STEM TEST #2 3362-3408

Open: IF 45"
FF 45"
Blow: Weak, building
Recovery: 80' clean gassy oil, 30' oil cut mud,
(10% oil, 85% mud, 5% water)
Pressures: ISIP 1089 psi
FSIP 1089 psi
IFP 39-49 psi
FFP 59-59 psi
HSH 1794-1735 psi

3410-3420 Dolomite, white, sucrosic, medium to coarse
crystalline, good inter-crystalline porosity,
brown to black stain, fair saturation, fair
odor, good show of free oil

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3425-3435

Dolomite, white, medium crystalline, sucrosic
fair inter-crystalline porosity, black stain,
fair saturation, fair odor, fair show of free
oil

3436-3445

Dolomite, white, finely crystalline, sucrosic
fair inter-crystalline porosity, spotty black
stain, weak odor, very weak show of free oil

3456-3460

Dolomite, white, finely crystalline, sucrosic
fair inter-crystalline porosity, weak odor,
very weak show of free oil

ROTARY TOTAL DEPTH

3460 (-1533)

LOG TOTAL DEPTH

3462 (-1535)

RECOMMENDATIONS:

Due to the favorable structural position and the results of drill
stem test #2, pipe was set two (2) foot off bottom at the rotary
total depth of 3458 (-1531) and the following zones are to be
tested on the #1 Rathbun

- 1) Arbuckle
- 2) Arbuckle
- 3) Arbuckle
- 4) Lansing
- 5) Lansing
- 6) Toronto

- 3425-3427 Perforate
- 3417-3420 Perforate
- 3410-3414 Perforate
- 3306-3310 Perforate
- 3228-3232 Perforate
- 3095-3099 Perforate

Respectfully submitted,

Rod Tremblay

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