



# cottonwood

ENERGY CORPORATION

5/12/85

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May 13, 1985

## GEOLOGICAL REPORT

Re.: Haltom #2  
C NE NW  
36-T21S-R9W  
Rice Co., Kansas

Operator: Energy Three, Inc.  
Geologist: W. Kent Ewonus  
Drilling Contractor: Big Three Drlg., Rig #1

Elevations: 1656' G.L., 1661' K.B.  
Spud: 5/5/85  
T.D.: 5/11/85  
RTD: 3464', LTD: 3463'  
Logs: DLL GR, LDL CNL GR, Cyberlook  
Logger: Schlumberger, Great Bend  
Result: 3462' of 4½" production casing set w/200sx

TESTS: DST #1 (Miss Chert Cg.)  
3352'-3376'  
45-60-60-120  
1st open, strong blow, GTS 19",  
Ga. thru 3/4" orifice: 30"-  
126,000; 40"-121,000  
2nd open, strong blow, GTS Imm,  
Ga. thru 3/4" orifice: 10"-  
146,000; 20"-132,000; 30"-  
121,000; 40"-121,000; 50"-  
115,000; 60"-115,000  
IFP 100#-73#  
ISIP 825# T-103°F  
FFP 73#-54#  
FSIP 825#  
HP 1866#/1857#  
Rec. 30' M

DST #2 (Miss Chert Cg.)  
3376'-3400'  
45-60-60-120  
1st open, fair blow build  
to bottom in 9"  
2nd open, weak blow build  
to bottom 37"  
IFP 36#-36#  
ISIP 119# T-104°F  
FFP 36#-36#  
FSIP 164#  
HP 1866#/1857#  
Rec. 915' GIP  
30' M w/SO



STRUCTURAL POSITION

Haltom #2	Haltom #1	Haltom #3
(all log tops)	C NW NE 36-21S-9W	NE SW SE 25-21S-9W
<u>Heebner Sh.</u> 2824 (-1163)	2813 (-1157)	2812 (-1158)
<u>Br. Lime</u> 2964 (-1303)	2956 (-1300)	2956 (-1302)
<u>Lansing</u> 3000 (-1339)	2986 (-1330)	2985 (-1331)
<u>Swope</u> 3232 (-1571)	3222 (-1566)	3217 (-1563)
<u>BKC</u> 3316 (-1655)	3304 (-1648)	3302 (-1648)
<u>Miss Chert Cg.</u> 3354 (-1693)	3334 (-1678)	3339 (-1685)
<u>Kinderhook</u> 3415 (-1754)	3404 (-1748)	3384 (-1730)

Zones of Interest

Tarkio: 2192'-2200', Sample examination shows this zone to be a slightly dolomitic limestone, no wet samples were seen, but the dry samples did have good flour and a slight gas kick of 25-30 units was recorded. This zone should be tested thru perms before this well is abandoned.

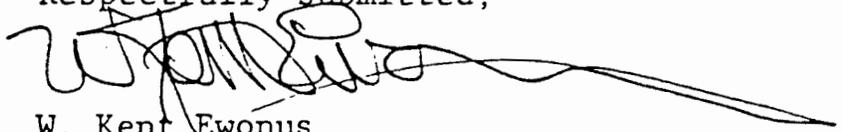
Lansing: 3000'-3316', although no shows were seen, many porosity breaks were recorded. It is my suggestion that on any structurally high well an EPT Log be run thru the LKC, because this formation has numerous oolitic zones.

Miss Chert Cg.: 3354'-3415', This section has a thickness of 61'. It should be noted that the lime directly above the Miss., was extremely cherty and did have staining. This zone in my opinion is Mississippian in age and is what remains of the upper most part of the Cg. section (a transitional facies). The good part of the section had average drilling

time of 1½" for 61'. Although the formation is low when compared to the #1 & #3 Haltoms, this well has the best BHP. We therefor must be dealing with a stratigraphic trap in association with the Mississippian unconformity, structure does not seem to play a major role with this formation. However any structure encountered would serve to enhance the zone and all other zones above and below the Miss Chert Cg.

Comments: Due to the positive results of DST #1 and the favorable logs it was recommended that production casing be run.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'W. Kent Ewonus', with a long horizontal flourish extending to the right.

W. Kent Ewonus  
Wellsite Geologist #2 Haltom

CC Mr. Dean Miller