

COPY

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PETROLEUM GEOLOGIST  
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P. O. Box 2  
CHANUTE, KANSAS  
OFFICE  
9 1/2 EAST MAIN

PHONES  
OFFICE HE 1-4130  
RES. HE 1-4028

FOX RIVER BASIN

K. Keas Et Al

Umbarger #2A

Comm. Drlg - 12/21/64  
Comp. Drlg - 12/23/64

Location: SW NE SW  
Section 36-28S-16E  
Wilson County, Kansas

Contractor: K.K. Drlg Co.

Elevation: 868 gd

Surface casing: 15' - 7"

- SAMPLES - 10' - 5' drilling time. Top Oswego - 601'
- 590 - 600 - Gray and green shale
  - 600 - 610 - Gray shale and tan xlyn ls.
  - 610 - 620 - Tan xlyn ls dense and black shale
  - 620 - 630 - Tan xlyn ls
  - 630 - 640 - Black fissilitic shale

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"CAT WALK DESCRIPTION"

CORE #1 640 - 671  
Recovered 28 feet

- 640 - 641.5 - Gray hrd shale
  - 641.5 - 651.5 - Gray-green & drk gray laminated shale w/spotted oil streaks
  - 651.5 - 652 - Brown med grd sd w/lime shells - dense and hard
  - 652 - 662 - Drk brown fine grd hrd sd - fair porosity. Gd oil saturation - core bleeding oil and gas
  - 662 - 666 - Drk brown fine grd sd interbedded with hard micaceous brittle gray shale - sd lenses - bleeding oil and gas
  - 666 - 668 - Gray brittle shale with few thin streaks of drk brown sd lenses - not commercial - micaceous
  - 668 - 671 - Loss
- Squirrel Pay
- Sand 652 - 662 - 10'
  - Brk sand 662 - 666 - 4'

#1 core picked up by Oilfield Research Lab.

- 670 - 680 - Drk gray shale
- 680 - 690 - Gray sdy shale
- 690 - 700 - Drk gray shale
- 700 - 710 - Gray and black shale

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710 - 720 - Black shale  
 720 - 730 - Lgt gray shale  
 730 - 735 - Lgt gray sdy shale

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CORE #2 735 - 766  
 Recovered 29'

735 - 745 - Gray shale Vilas Gas Sd Zone  
 745 - 749 - Gray sdy shale and 745 - 763.5 - 18.5'  
 siltstone  
 749 - 763.5 - Gray - fine grd sd and siltstone  
 no stain - no odor  
 763.5 - 764 - Drk gray shale brittle  
 764 - 766 - Loss

SAMPLES

766 - 770 - Gray shale  
 770 - 780 - Gray shale and tan fine/med grd sd -  
 slight odor - fair stain  
 780 - 782 - Circ. tan fine/med grd sd - gd odor -  
 slight show - gd porosity

CORE #3 782 - 817  
 Recovered 19 feet

Bartlesville Sand  
780 - 798 - 18'

782 - 798 - Gray fine/med grd sd - good porosity -  
 no oil stain - core bleeding water -  
 Non commercial  
 798 - 801 - Drk gray brittle shale  
 801 - 817 - Loss (Core catcher off)  
 #3 core picked up by Oilfield Research Lab.

SAMPLES

817 - 820 - Gray shale  
 820 - 830 - Gray shale  
 830 - 840 - Gray shale  
 840 - 850 - Black shale & coal  
 850 - 860 - Gray shale  
 860 - 870 - Gray shale  
 870 - 880 - Black shale  
 880 - 890 - Gray and drk gray shale  
 890 - 900 - Gray and drk gray shale  
 900 - 910 - Gray and black shale  
 910 - 920 - Black brittle shale  
 920 - 930 - Drk gray shale & tan fine grd sdy shale -  
 slight odor - no stain  
 930 - 940 - Drk & black shale  
 940 - 950 - Gray shale

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36-28-16E

950 - 960 - Gray shale  
 960 - 970 - Gray and black shale  
 970 - 980 - Gray shale  
 980 - 990 - Gray shale  
 990 - 1000 - Gray sdy shale - no stain - no odor  
 1000 - 1010 - Gray sdy shale - no stain  
 1010 - 1020 - Gray shale  
 1020 - 1030 - Gray shale  
 1030 - 1040 - Drk gray shale  
 1040 - 1050 - Gray shale  
 1050 - 1060 - Gray shale and white xlyn dense ls w/chert

Top Mississippi - 1059 (-191)

1060 - 1064 - White/tan xlyn ls and chert - fair  
 odor - very slight stain  
 1064 - 1067 - White/tan xlyn ls & dol w/chert - no odor  
 Circ. 15 minutes

T.D. - 1067  
 Logged by Schlumberger  
 Sonic - Induction logs and Micro Laterolog

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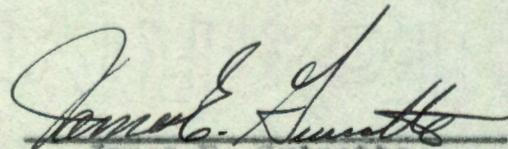
Ran 721.59' of new 4½ casing for Squirrel zone

Cemented by Halliburton w/90 sax 50% Pozmix - 2% cal chloride  
 to the surface

ELECTRIC LOG TOPS

Pawnee ls	526
Oswego ls	601
Squirrel sd	651 - 664 - 13'
Vilas Gas Zone	748 - 762 - 14'
Bartlesville sand	780 - 812 - 32'
Mississippi	1060 ( 191)
T.D	1067

Recommended setting pipe and completion of the Squirrel  
 sand: 651 - 664

  
 James E. Guinotte