

Frank Esch No. 1

33-33-6

Cowley County, Kansas.

Trees Bros & Temple Syndicate. SW SW

|                |       |      |     |                     |
|----------------|-------|------|-----|---------------------|
| soil           | dark  | soft | 25  | 25                  |
| gravel         |       |      | 10  | 35-water cave       |
| clay           | red   | soft | 10  | 45-set 20"          |
| lime           | white | hard | 10  | 55-little gas       |
| slate          | blue  | soft | 5   | 60                  |
| lime           | white | hard | 25  | 85                  |
| slate          | blue  | soft | 15  | 100                 |
| rock           | red   | soft | 30  | 130                 |
| lime           | white | hard | 30  | 160-water 150       |
| shale          | white | soft | 100 | 260                 |
| lime           | white | soft | 20  | 280                 |
| slate          | blue  | soft | 20  | 300                 |
| shale          | white | soft | 60  | 360                 |
| slate          | blue  | soft | 40  | 400                 |
| lime           | white | hard | 30  | 430-gas             |
| sand & shale   | white | soft | 15  | 445-8 M. gas 440-60 |
| sand           | grey  | soft | 90  | 535                 |
| slate          | blue  | soft | 75  | 610                 |
| lime           | white | hard | 15  | 625                 |
| slate          | white | soft | 50  | 675                 |
| lime           | white | hard | 30  | 705                 |
| slate          | blue  | soft | 15  | 720                 |
| lime           | blue  | hard | 5   | 725                 |
| slate          | blue  | soft | 75  | 800                 |
| lime           | white | hard | 10  | 810                 |
| slate          | blue  | soft | 30  | 840                 |
| lime           | white | hard | 15  | 855                 |
| slate & shells | white | soft | 100 | 955                 |
| lime           | white | hard | 20  | 975                 |
| slate          | white | soft | 50  | 1025                |
| lime           | white | hard | 30  | 1055                |
| slate          | white | soft | 30  | 1085-cave           |
| lime           | white | hard | 10  | 1095                |
| slate          | blue  | soft | 35  | 1130                |
| lime           | white | hard | 20  | 1150                |
| sand           | white | soft | 45  | 1195                |
| slate          | blue  | soft | 20  | 1215                |
| lime           | white | hard | 5   | 1220                |
| slate          | blue  | soft | 5   | 1225                |
| sand           | white | soft | 20  | 1245-HFW            |
| slate          | blue  | soft | 40  | 1285                |
| lime           | white | hard | 10  | 1295                |
| slate & shells | blue  | soft | 65  | 1360-dry cave bad   |
| mud            | blue  | soft | 20  | 1380                |
| rock           | red   | soft | 15  | 1395                |
| slate          | blue  | soft | 5   | 1400                |
| sand           | grey  | soft | 10  | 1410-1/4 M. gas     |
| lime           | white | hard | 15  | 1425                |
| slate          | blue  | soft | 50  | 1475                |
| sand           | grey  | soft | 5   | 1480-little gas     |
| lime           | white | hard | 30  | 1510                |
| slate & shells | white | soft | 200 | 1710                |
| sand           | white | soft | 45  | 1755-HFW 1740       |
| slate          | blue  | soft | 110 | 1865                |
| sand           | white | soft | 35  | 1900                |
| slate          | blue  | soft | 10  | 1910                |
| sand           | brown | soft | 5   | 1915                |
| sand           | white | soft | 30  | 1945-HFW            |
| slate          | blue  | soft | 55  | 2000                |
| sand           | white | soft | 50  | 2050-HFW            |
| slate          | blue  | soft | 15  | 2065                |
| sand           | white | soft | 40  | 2105                |
| slate          | blue  | soft | 35  | 2140-HFW            |
| sand           | white | soft | 60  | 2200                |
| lime           | white | hard | 20  | 2220                |
| slate          | blue  | soft | 95  | 2315                |
| sand           | blue  | soft | 65  | 2380                |
| slate          | blue  | soft | 20  | 2400                |

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|             |       |      |     |      |                  |
|-------------|-------|------|-----|------|------------------|
| lime        | white | hard | 20  | 2420 |                  |
| lime        | black | hard | 30  | 2450 |                  |
| lime        | white | hard | 110 | 2560 |                  |
| sand        | brown | hard | 10  | 2570 | little show oil  |
| lime        | black | hard | 20  | 2590 |                  |
| slate       | blue  | soft | 10  | 2600 |                  |
| lime        | black | hard | 90  | 2690 |                  |
| slate       | black | soft | 60  | 2750 |                  |
| lime        | white | hard | 10  | 2760 |                  |
| slate       | black | soft | 180 | 2940 |                  |
| lime        | black | hard | 5   | 2945 |                  |
| shale       | brown | soft | 5   | 2950 |                  |
| sand & lime | white | soft | 13  | 2963 |                  |
| sand        | white | soft | 10  | 2973 | about 3 bbls oil |
|             |       |      |     |      | natural          |
| Lime-Miss.  | white | hard | 71  | 3034 |                  |

Show with 120 qts between 2950 and 2975, but did not show oil.

Esch  
Frank Esch, #3.

Location: SW corner of SW 1/4,  
Sec. 33, T33S, R6E,  
Gowley County, Ks.

Drilled by: Trees Bros. & Temple Syndicate.

| <u>NATURE OF STRATA</u>   | <u>DEPTH FROM</u> | <u>DEPTH TO</u> | <u>REMARKS</u>      |
|---------------------------|-------------------|-----------------|---------------------|
| Soil, dark soft           | 25                | 25              |                     |
| Gravel                    | 10                | 35              |                     |
| Clay red soft             | 10                | 45              | Water               |
| Lime white hard           | 10                | 55              | Cave, set 20"       |
| Slate blue soft           | 5                 | 60              | at 45               |
| Lime white hard           | 25                | 85              | Little gas at 55'   |
| Slate blue soft           | 15                | 100             | 2 bbl water 50'     |
| Red rock soft             | 30                | 130             |                     |
| Lime white hard           | 30                | 160             | Set 15 1/2" at 140  |
| Shale white soft          | 100               | 260             | 1 bbl water 150     |
| Lime white soft           | 20                | 280             |                     |
| Slate blue soft           | 20                | 300             |                     |
| Slate white soft          | 60                | 340             |                     |
| Slate blue soft           | 40                | 400             |                     |
| Lime white hard           | 30                | 430             |                     |
| Sand & shale white soft   | 15                | 445             | Gas 430, Top Gas    |
| Sand gray soft            | 90                | 535             | sand 8 M. gas 440   |
| Slate blue soft           | 75                | 610             | to 460              |
| Lime white hard           | 15                | 625             |                     |
| Slate white soft          | 50                | 675             |                     |
| Lime white hard           | 30                | 705             |                     |
| Slate blue soft           | 15                | 720             |                     |
| Lime white hard           | 5                 | 725             |                     |
| Slate blue soft           | 75                | 800             |                     |
| Lime white hard           | 10                | 810             |                     |
| Slate blue soft           | 30                | 840             |                     |
| Lime white hard           | 15                | 855             |                     |
| Slate & shells white soft | 100               | 955             |                     |
| Lime white hard           | 20                | 975             |                     |
| Slate white soft          | 50                | 1025            |                     |
| Lime white hard           | 30                | 1055            |                     |
| Slate white soft          | 30                | 1085            | Cave at 1085        |
| Lime white hard           | 10                | 1095            |                     |
| Slate blue soft           | 35                | 1130            |                     |
| Lime white hard           | 20                | 1150            |                     |
| Sand white soft           | 45                | 1195            |                     |
| Slate blue soft           | 20                | 1215            | Run 10" at 1215     |
| Lime white hard           | 5                 | 1225            | after reaming sand  |
| Sand white soft           | 20                | 1245            | H.F.W. at 1245      |
| Slate blue soft           | 40                | 1285            | Reamed to 1265      |
| Lime white hard           | 10                | 1295            |                     |
| Slate shell blue soft     | 65                | 1300            | Dry cave, bad,      |
| Red blue soft             | 20                | 1380            | reamed 10" to 1300  |
| Red Rock soft             | 15                | 1395            |                     |
| Slate blue soft           | 5                 | 1400            |                     |
| Gas sand gray soft        | 10                | 1410            |                     |
| Lime white hard           | 15                | 1425            |                     |
| Slate soft                | 50                | 1475            | about 1/2 M. gas at |
| Gas sand gray soft        | 5                 | 1480            | 1410, little more   |
| Lime white hard           | 30                | 1510            | at 1480             |
| Slate & shells soft       | 200               | 1710            |                     |
| Sand white soft           | 45                | 1755            | H.F.W. at 1740, set |
| Slate blue soft           | 110               | 1865            | 8" at 1790 reamed   |
| Water sand white soft     | 35                | 1900            | at 1950             |
| Slate blue soft           | 20                | 1910            |                     |

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Water sand white soft  
 Slate blue soft  
 Water sand white soft  
 Slate blue soft  
 Water sand white soft  
 Slate blue soft  
 Water sand white soft  
 Slate white hard  
 Slate blue soft  
 Sand blue soft  
 Slate blue soft  
 Lime white hard  
 Lime white hard  
 Lime white hard  
 Sand oil brown  
 Lime black hard  
 Slate blue soft  
 Slate black soft  
 Lime white hard  
 Slate black ~~hard~~ soft  
 Lime black hard  
 Shale brown soft  
 Sand & lime white soft  
 Sand soft  
 Mississippi Lime white hard

30  
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1945  
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H.F.W 1945

H.F.W.

H.F.W

Set 6", 2500  
 2 bbls water

Little show oil

ln 2690?

2 or 3 bbls oil

Shot, 120 qts.  
 between 2850 &  
 2875, did not show  
 more oil.

2973  
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 2.  
 41320

2740  
 1135  
 1127