

Computer inventoried

13-33-4E

CLAUDE UTTERBACK

Geologist

2822 ALOMA

WICHITA 11, KANSAS

June 15, 1965

GEOLOGICAL WELL REPORT

WISCO DRILLING CO. # 1 MCGILLUM  
SE NE SW, 13-33-4E  
Cowley County, Kansas

Elevation: 1170 Ground Level. 1178 Kelly Bushing.

Commenced: 5-31-65. Rotary Completion 6-12-65.

FORMATION TOPS

|                                   |            |
|-----------------------------------|------------|
| Iatan Lime - - - - -              | 1952 -774  |
| Stainsker Sand - - - - -          | 1988 -810  |
| Layton Sandy Lime - - - - -       | 2398 -1220 |
| Layton Sand - - - - -             | 2435 -1257 |
| Kansas City Lime - - - - -        | 2597-1419  |
| Warraton Lime - - - - -           | 2794 -1616 |
| Cherokee Shale - - - - -          | 2904 -1726 |
| Bartlesville Sandy Zone - - - - - | 3096 -1918 |
| Mississippi Chert - - - - -       | 3144 -1966 |
| Mississippi Dolomite - - - - -    | 3170 -1992 |
| Mississippi Limestone - - - - -   | 3177 -1999 |
| Rotary Total Depth - - - - -      | 3198 -2020 |
| Set 5 1/2" casing at - - - - -    | 3194 -2016 |

WRICO DRILLING CO. # 1 McCOLLUM  
SE NE SW, 13-33-4E  
Cowley County, Kansas

DRILLSTEM TEST DATA

Halliburton drillstem test from 3145 to 3169, good blow throughout test, tool open 20 minutes and shutin 45 minutes for initial bottom hole pressure of 1112 psi., tool open one hour and shutin 45 minutes for final bottom hole pressure of 1112 psi., flow pressures 27 to 90 psi., had flammable gas to surface in one-half hour and recovered 170 feet of heavily oil and gas out rotary drilling mud.

SUMMARY

A good showing of oil and gas was found in cautioned test in a leached and porous Mississippian chert interval from 3144 to 3162, data indicates a petroleum deposit of possible economic significance and casing was set for conclusive tests.

The interval from 3170 to 3177 consisted of slightly cherty dolomite and dolomitic limestone, porosity is generally poor and the zone carried some weak staining which data indicates to be non-commercial.

Ran Schlumberger induction electrical and sonic caliper logs.

All datums cited are from the top of Kelly Bushing.

Claude Utterback

SAMPLE ANALYSIS

- 1300-1328 dense to slightly fossiliferous gray buff lime.  
 1374 varicolored shale and shaley lime streaks.  
 1406 dense hard light brown lime.  
 1444 fine to medium grain sand, poor to fair porosity, no show.  
 1586 gray siltstones and shales, some very fine grain sands, no show.  
 1750 dark gray silty shale grading to varicolored shale in base.  
 1774 dense to slightly fossiliferous brown lime.  
 1950 dark gray silty shales, siltstones and thin lime streaks.  
 1958 dense hard brown lime.  
 1988 dark gray silty shales and siltstone.  
 2022 fine grain micaceous silty gray sand, fair porosity, no show.  
 2032 gray siltstone and silty shales.  
 2090 fine to medium grain micaceous gray sand, good porosity, no show.  
 2188 varicolored shale.  
 2194 dense hard dark brown lime.  
 2228 fine grain micaceous silty gray sand, fair porosity, no show.  
 2388 varicolored shale, much dark gray green shale.  
 2404 dense hard silty mottled brown lime.  
 2433 gray siltstone and shale.  
 2437 hard tight fused fine grain gray sand, poor porosity, no show.  
 2454 fine grain micaceous gray sand, fair porosity, no odor, possible trace of weak stain.  
 2484 gray siltstone and shale.  
 2532 fine to medium grain micaceous gray sand, good porosity, no show.  
 2597 dark gray to varicolored shale.  
 2504 dense hard gray brown lime.  
 2624 mottled brown fossiliferous slightly sandy lime.  
 2655 dense hard gray brown lime.  
 2688 varicolored shale.  
 2702 dense hard dark brown lime.  
 2794 gray green siltstone grading to varicolored shale in base.  
 2809 dense hard gray brown lime.  
 2845 dark gray to black shale, some dark shaley lime.  
 2911 fossiliferous to dense hard light to red brown lime.  
 3028 gray siltstones and dark silty shales.  
 3058 varicolored silty shales.  
 3095 greenish gray siltstones and very silty shales.  
 3106 gray siltstone.  
 3144 varicolored silty shales.  
 3144-3162 Principally leached chert with pinpoint to good vugular porosity, sharp odor and good staining, some vitreous gray chert with light oil stains on fracture surfaces.  
 3162-3170 principally gray to mottled gray buff fossiliferous vitreous chert, a few leached spots and fracture surfaces showing light oil stains.  
 3170-3177 gray buff dense to finely crystalline to slightly sucrosic dolomite and dolomitic lime, poor porosity with some weak staining, some vitreous to slightly leached gray chert weakly stained where porous.  
 3177-3198 dense to finely crystalline silty hard brown to dirty brown lime becoming darker with depth.  
 3198 Rotary total depth.