

15-135-21455

33-16-25W

State Geological Survey
WICHITA BRANCH

W E L L L O G

OPERATOR: Liberty Enterprises, Inc.

WELL NAME: Rupp A #4 LOCATION: C SE SW *Sec. 33-16-25W*

COUNTY: Ness STATE: Kansas

WELL COMMENCED: April 17, 1978 WELL COMPLETED: April 27, 1978

ELEVATION: 2544' KB TOTAL DEPTH: 4520'

PRODUCTION: D & A SWD Well RIG NO: #1

CASING - 8-5/8": ^{293'}~~239'~~ 140 sxs common 3% cc 2% gel

4 1/2" ~~5-7/8"~~: 1890' with 500 sxs 50-50 poz, 250 sxs 10% gel
250 sxs 6% gel

ALL MEASUREMENTS TAKEN FROM THE TOP OF ROTARY BUSHING:

| FROM | TO | FORMATION | DEVIATION FROM VERTICAL | REMARKS: |
|-------|-------|---------------------|-------------------------|---------------|
| 293' | 520' | shale and sand | | |
| 520' | 1410' | shale and sand | | |
| 1410' | 1889' | shale and sand | | |
| 1855' | 1889' | Anhydrite | | |
| 1889' | 2055' | Anhydrite and shale | 1923' | 2 degrees |
| 2055' | 2455' | shale and shells | | |
| 2455' | 2730' | | | |
| 2730' | 2810' | lime and shale | 2730' | 1 3/4 degrees |
| 2810' | 3045' | lime and shale | | |
| 3045' | 3177' | shale and lime | | |
| 3177' | 3305' | lime and shale | | |
| 3305' | 3520' | lime and shale | | |
| 3520' | 3750' | lime | | |
| 3750' | 3865' | lime and shale | | |
| 3865' | 3955' | lime | | |
| 3955' | 4063' | lime | | |
| 4063' | 4140' | lime and shale | | |
| 4140' | 4210' | lime | | |
| 4210' | 4260' | lime | | |
| 4260' | 4295' | lime | | |
| 4295' | 4340' | lime | | |
| 4340' | 4380' | lime | | |
| 4380' | 4425' | lime | | |
| 4425' | 4435' | lime | 4400' | 1 degree |
| 4435' | 4476' | lime | | |
| 4476' | 4510' | | | |
| 4510' | 4512' | lime | | |
| 4512' | 4520' | dolomite | | |

RECEIVED
STATE CORPORATION COMMISSION
MAY 02 1978
CONSERVATION DIVISION
Wichita, Kansas

STATE OF KANSAS
COUNTY OF

The undersigned hereby certifies that to the best of his knowledge and belief, the above facts are true and correct