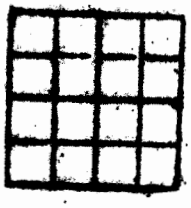
Company Phillips

Farm Houseman No. 1

Sec. 30 T. 22 R. 22W
Loc.

Total Depth
Comm. Comp.
Shot or Treated
Contractor
Issued

County Hodgeman



Casing

| | |
|---|---|
| 20 in. | 10 in. |
| 15 1-2 | 8 1-4 |
| 12 1-2 | 6 5-8 |
| 13 3-8 | 5 3-16 |

Elevation

Production

**Figures Indicate Bottom of Formation**

Cretaceous
Benton
Greenhorn Lime 15 - 42

| | |
|---|---|
| 15-35 | Ostrea Globigerina beds |
| 35-42 | Rounded granular dolomite |

Graneros Shale ? 42-130

| | |
|---|---|
| 42-130 | Grey chalky shale, grity, and very fossiliferous. |

Dakota Group 130- 440

| | |
|---|---|
| 130-135 | Sand |
| 135-152 | Gray chalky shale |
| 152-175 | Sand |
| 175-180 | Rounded dolomite, gray bentomitic shale |
| 180-190 | Gray shale and rounded dolomite |
| 190-195 | Terra Cotta shale |
| 195-200 | Sand and dolomite |
| 200-225 | Grey shale, dolomite, and sand |
| 225-235 | Terra Cotta shale, some dolomite and gyp. |
| 235-252 | Grey shale Inoceramus |
| 252-260 | Grey shale, sand, and dolomite |
| 260-290 | Grey shale |
| 290-310 | Sandy brown shale and grey shale |
| 310-325 | Grey shale |
| 325-350 | Grey and light brown sandy shale |
| 350-360 | Sand, lime, and grey shale |
| 360-390 | Alternating beds of brown shale, grey shale, and sand. |
| 390-395 | Sandy grey shale |
| 395-440 | Sand |

| | |
|---|---|
| | Comanche<br>Kiowa - 440-515' |
| 440-450 | Gray and brown shale |
| 450-465 | Grey shale |
| 465-485 | Grey shale and sand |
| 485-510 | Grey shale |
| 510-515 | Sand |
| | 515-590 |
| | Champion Shell Beds? |
| 515-525 | Sandy lime, very fossiliferous |
| 525-550 | Grey shale |
| 550-555 | Grey sandy shael |
| 555-575 | Grey shale |
| 575-590 | Very dark grey shale with some sand |
| | Cheyenne Sandstone 590-600 |
| 590-600 | Sand |
| | Sundance 600-605 |
| 600-605 | Turquoise shale |
| | Permian |
| | Dog Creek White Horse - 605-850 |
| 605-615 | Terra Cotta shale |
| 615-620 | Dark grey and terra cotta shale |
| 620-645 | Terra Cotta shale |
| 645-650 | Dark grey shale |
| 650-660 | Terra Cotta shale |
| 660-670 | Terra Cotta and brown shale |
| 670-680 | Dark grey shale, terra cotta shale, and sand |
| 680-720 | Alternating beds of grey shale and terra cotta shale |
| 720-850 | Terra Cotta shale, with some large frosted sand at 750' |
| | Blain 850-895 |
| 850-880 | Alternating beds of gyp and terra cotta shale |
| 880-895 | Anhydrite |
| | Enid 895-1183 |
| 895-900 | Terra Cotta shale |
| 900-920 | Sand and terra cotta shale |
| 920-945 | Terra cotta shale |
| 945-950 | Sand and terra cotta shale |
| 950-995 | Polish orange sand |
| 995-1000 | Terra cotta shale |
| 1000-1105 | Polish orange sand |
| 1105-1110 | Terra cotta shale |
| 1110-1130 | Polished orange sand |
| 1130-1150 | Terra shale and some gyp |
| 1150-1185 | Sand |
| 1185-1190 | Terra cotta shale |
| 1190-1255 | Sand |
| 1255-1260 | Terra cotta shale |
| 1260-1315 | Sand |
| 1315-1335 | Terra cotta shale |
| 1335-1355 | Terra cotta shale |

| | |
|---|---|
| 1355-1360 | Sand |
| 1360-1380 | Terra cotta shale |
| 1380-1395 | Angular sand, orange. |
| 1395-1400 | Terra cotta shale |
| 1400-1425 | Orange sand |
| 1425-1430 | Terra cotta shale |
| 1430-1455 | Orange sand |
| 1455-1483 | Terra cotta shale and some gyp |

Wellington 1483-1738.

| | |
|---|---|
| 1483-1490 | Anhydrite |
| 1490-1520 | Oolitic dolomite |
| 1520-1530 | Anhydrite and dolomite |
| 1530-1540 | Brown shale and gyp |
| 1540-1580 | Brown shale |
| 1580-1585 | Sand and gyp |
| 1585-1605 | Brown shale |
| 1605-1620 | Grey and brown shale and gyp |
| 1620-1635 | Brown shale |
| 1635-1655 | Grey and brown shale and gyp |
| 1655-1670 | Grey and brown shale |
| 1670-1685 | Brown shale |
| 1685-1690 | Anhydrite |
| 1690-1715 | Brown shale |
| 1715-1750 | Alternating beds of brown shale, with gyp and anhydrite |
| 1750-1765 | Grey and brown shale |
| 1765-1815 | Alternating beds of grey shale and anhydrite |
| 1815-1820 | Grey shale |
| 1820-1835 | Dark grey and dark brown shale |
| 1835-1840 | Grey shale and anhydrite |
| 1840-1855 | Anhydrite |
| 1855-1890 | Grey shale and anhydrite |
| 1890-1910 | Grey and brown shale with some anhydrite |
| 1910-1920 | Grey shale and anyhydrite |
| 1920-1935 | Dark grey and brown shale with anhydrite |
| 1935-1980 | Salt with some grey shale |
| 1980-1990 | Grey shale |
| 1990-2020 | Salt with some grey shale |
| 2020-2045 | Salt |
| 2045-2055 | Anhydrite and grey shale |
| 2055-2060 | Salt |
| 2060-2070 | Anhydrite |
| 2070-2090 | Grey shale, salt, and anhyrite |
| 2090-2150 | Salt |
| 2150-2160 | Anhydrite |
| 2160-2200 | Salt |
| 2200-2210 | Grey shale and anhydrite |
| 2210-2270 | Salt |
| 2270-2285 | Grey anhydrite |
| 2285-2305 | Grey shale and anhydrite |
| 2305-2320 | Grey and brown shale with some anhydrite |
| 2320-2345 | Anhydrite |
| 2345-2360 | Grey and brown shale with anhyrite |
| 2360-2380 | Grey shale and anhydrite |

| | |
|---|---|
| | Marion and Chase 2380-2805 |
| 2380-2385 | Speckled dolomite |
| 2385-2395 | Grey shale and snhydrite |
| 2395-2415 | Grey and brown shale and anhydrite |
| 2415-2430 | Buff to grey brown mottled dolomite Ostracod Casts |
| 2430-2440 | Grey mottled dolomite |
| 2440-2450 | Grey and brown shale, and some anhydrite |
| 2450-2470 | Grey granular dolomite |
| 2470-2495 | Grey granular dolomite, porous, contains some chert nodules, and crinoids. |
| 2495-2510 | Grey shale and dolomite |
| 2510-2535 | Grey buff granular dolomite and some chert |
| 2535-2555 | Very porous grey granular lime |
| 2555-2590 | Brown shale with some grey shale |
| 2590-2600 | Grey chert and buff dolomite |
| 2600-2640 | Grey mottled lime with black chert at top, Echinoid spines. |
| 2640-2650 | Grey porous lime and some anhydrite |
| 2650-2662 | Grey porous lime Echinoid spines |
| 2662-2700 | Grey porous lime, very fossiliferous Triticites sp. & Fusulina 3 sp. (looks like Pvc) |
| 2700-2715 | Grey lime with some chert |
| 2715-2726 | Grey shale, lime, and trace of anhydrite |
| 2726-2742 | Grey and brown shale and lime |
| 2750-2760 | Grey granular and some chert |
| 2760-2765 | Brown shale |
| 2765-2790 | Grey granular lime and chert |
| 2790-2805 | Dark grey marly lime Triticites ventricocus and 2 sp. |
| | Cottonwood-Garrison 2805-3005 |
| 2805-2830 | Grey shale with some lime |
| 2830-2850 | Lime, black, and brown shale |
| 2855-2858 | Brown shale |
| 2858-2870 | Granular marly lime |
| 2870-2875 | Brown shale |
| 2875-2885 | White granular lime |
| 2885-2900 | Chert, lime, and anhydrite |
| 2900-2905 | Brown shale |
| 2905-2925 | Grey granular lime with some chert |
| 2925-2930 | Grey shale |
| 2930-2950 | Grey lime |
| 2950-2960 | Buff granular lime Triticites ventricosus & Fusulina 2 sp. |
| 2960-2985 | Some greenish lime and brown shale |
| 2985-3005 | Alternating beds of lime and grey and brown shale. Fusulina sp. fragment |
| | Neva 3005-3040 |
| 3005-3015 | Lime and some white chert |
| 3015-3025 | Grey granular lime |
| 3025-3040 | Buff lime and chert, with some grey lime |
| | Pennsylvanian 3040-3100 |
| 3040-3055 | Grey and grey green shale |
| 3055-3070 | Grey nottled granular sucrose lime |
| 3070-3085 | Buff granular lime |

| | |
|---|---|
| 3085-3100 | Grey green shale with some lime |
| | Americus 3100 - 3360 |
| 3100-3145 | Grey granular light lime with some chert. Triticites ventricosus (very abundant) |
| 3145-3155 | Grey black shale |
| 3155-3180 | Alternating beds of lime and grey black shale triticites ventricosus elongate type and triticites obesus? |
| 3180-3200 | Grey and dark grey shale with some oolitic lime |
| 3200-3210 | Grey and dark green shale Triticites sp. |
| 3210-3215 | Lime |
| 3215-3225 | Grey shale |
| 3225-3230 | Lime |
| 3230-3240 | Grey shale |
| 3240-3245 | Brown shale |
| 3245-3250 | Sand |
| 3250-3260 | Grey and brown shale |
| 3260-3270 | Sand, grey and brown shale |
| 3270-3280 | Sand and grey shale |
| 3280-3300 | Sand with a little grey green shale |
| 3300-3310 | Grey shale |
| 3310-3320 | Grey green shale |
| 3320-3340 | Grey shale |
| 3340-3370 | Light buff lime Triticites sp. fragments |
| 3370-3375 | Brown shale |
| 3375-3390 | Grey shale with nodular lime |
| 3390-3395 | Lime |
| 3402-3410 | Grey shale and nodular lime |
| 3410-3415 | Grey shale, nodular lime and maroon shale |
| 3415-3422 | Grey shale and some grey lime |
| 3422-3429 | Marly grey lime with some grey shale and chert |
| 3429-3435 | Grey shale and grey cherty lime |
| 3445-3455 | Green grey shale and gry. lime with trace of maroon shale |
| 3455-3460 | Grey shale |
| 3460-3465 | Grey shale and some grey lime |
| 3465-3470 | Buff granular lime. Triticites ventricosus and triticites acutus? |
| 3470-3475 | Grey marly lime |
| 3475-3480 | Grey shale |
| 3480-3485 | Grey shale and buff lime |
| 3485-3490 | Fine micaceous sand, and grits, with grey and maroon shale. |
| 3490-3495 | As above |
| 3495-3500 | As above with trace of lime |
| 3500-3512 | Grey shale |
| 3512-3524 | Grey shale and some lime |
| 3524-3536 | Dark grey lime and grey shale Triticites ventricosus |
| 3536-3548 | Buff lime |
| 3548-3560 | As above with some grey shale |
| | Shawnee 3560 - 3810 |
| 3560-3568 | Buff lime Triticites cullomensis |
| 3568-3575 | Grey buff lime |
| 3575-3590 | Grey lime and grey shale. |

| | |
|---|---|
| 3590-3595 | Grey shale and grey lime |
| 3595-3600 | Porous oolitic buff lime and grey shale |
| 3600-3605 | Grey shale |
| 3605-3610 | Grey shale and grey lime |
| 3610-3620 | Grey lime |
| 3620-3625 | Grey lime and grey shale |
| 3625-3630 | As above |
| 3630-36350 | Porous oolitic buff lime and grey shale |
| 3645-3660 | Buff lime |
| 3660-3665 | Buff lime and some grey shale |
| 3665-3675 | Buff lime |
| 3690-3695 | Buff lime |
| 3695-3700 | Buff lime and grey shale |
| 3700-3710 | Grey shale |
| 3710-3715 | Grey shale and grey lime |
| 3775-3785 | Crystalline buff lime |
| 3805-3810 | Crystalline buff lime |
| | Deer Creek ? 3820-3860 |
| 3820-3830 | Buff crystalline lime with chert. Triticites beedei ??? fragments |
| 3852-3860 | Grey lime and grey shale |
| | Landing- Kansas City 3925-4130 |
| 3925-3935 | Grey green shale and grey cherty lime |
| 3940-3945 | As above |
| 3964-3973 | Buff dense lime |
| 3973-3980 | Grey shale |
| 3980-3985 | Grey shale and some maroon shale |
| 3985-3990 | Grey shale and buff lime |
| 3990-3995 | Cherty buff lime, with grey green shale and trace of maroon |
| 3995-4005 | Brown cherty lime |
| 4010-4020 | Buff lime and grey shale |
| 4020-4025 | White lime |
| 4025-4035 | White lime and grey shale |
| 4037-4042 | Crystalline white lime |
| 4042-4050 | Buff crystalline lime and grey shale |
| 4050-4053 | Buff crystalline cherty lime |
| 4060-4068 | Grey green shale and lime |
| 4068-4082 | Buff cherty lime and grey shale |
| 4082-4093 | Buff cherty lime Triticites cullomensis and triticites secalicus? |
| 4093-4100 | Buff oolitic chert |
| 4100-4110 | Grey buff lime and chert |
| 4110-4133 | Granular grey buff lime |
| 4133-4130 | Granular brown lime and dark grey shale |
| | Marmaton 4140-4315 |
| 4140-4150 | Grey green shale |
| 4155-4158 | White crystalline lime |
| 4158-4165 | Grey crystalline lime |
| 4165-4177 | Grey green and dark green shale Plant remains |
| 4185-4190 | Grey buff lime |
| 4190-4197 | Grey buff lime and grey marl |

| | | |
|---|---|---|
| 4212-4216 | Grey buff lime | |
| 4216-4220 | Grey buff porous oolitic lime | |
| 4220-4226 | Buff grey granular lime | |
| 4230-4240 | Dark grey green shale | Bradyina |
| 4240-4250 | Porous oolitic buff lime | |
| 4250-4266 | Grey crystalline lime | |
| 4266-4272 | Black shale, nodular | |
| 4272-4282 | Dark grey shale and some lime | Plant remains |
| 4282-4296 | Grey lime | |
| 4296-4300 | Dense grey lime | |
| 4300-4305 | As above | |
| 4305-4310 | As above with some black shale | |
| 4310-4315 | Buff dense lime | |

Cherokee 4318-4568

| | | |
|---|---|---|
| 4318-4331 | Granular black shale | |
| 4337-4343 | Brown lime | |
| 4347-4355 | Grey maroon shale and nodular brown lime | |
| 4355-4360 | Dark grey and maroon shale with lime | |
| 4360-4362 | Coal | |
| 4362-4368 | Grey green shale and grey lime | |
| 4368-4395 | Dark grey and maroon shale, with brown and green nodular lime, | Hustedia & Roemerella sp. |
| 4395-4405 | Grey dense lime | Fusulinella Meeki & Minutissima |
| 4405-4430 | Buff dense lime with grey and maroon shale | |
| 4430-4435 | Grey green shale and dark maroon shale | |
| 4335-4445 | Grey greenshale | |
| 4445-4455 | Grey green shale and grey brown dense lime | |
| 4455-4457 | Grey green shale | |
| 4457-4482 | Granular lime, very grey | |
| 4482-4488 | As above with dark grey shale | |
| 4488-4505 | Very dark grey shale | |
| 4513-4521 | Cherty white lime | Chaetetes |
| 4521-4530 | Platy grey shale | |
| 4530-4540 | Grey dense lime | |
| 4540-4545 | Grey dense lime and grey shale | Chonetes mesolobus |
| 4545-4562 | Grey dense lime and grey shale | |
| 4562-4568 | Green shale and sand | |

Ordovician 4568-5120

Simpson — Note: For some reason or other the Simpson is unduly thick. The dip may be very hight as Phillips took no cores from this lower dolomite horizon .

| | |
|---|---|
| 4568-4575 | Yellow and green shale |
| 4575-4590 | Variegated shale with some chert |
| 4590-4597 | Fine buff dolomite and chert |
| 4597-4610 | Green and maroon shale, with chert, and some frosted sand |
| 4610-4625 | As above, with some brown shale |
| 4625-4645 | Mostly chert, with some variegated shale |
| 4645-4655 | Chert and green glauconitic shale |
| 4655-4660 | Buff dolomite |
| 4660-4668 | Chert, tripoli, and dolomite |

| | |
|---|---|
| 4668-4675 | Tripoli with some dolomite and glauconite |
| 4675-4680 | Glauconitic Buff dolomitic lime and green shale |
| 4680-4685 | Granular dolomite |
| 4685-4690 | Buff granular dolomite |
| 4690-4695 | As above |
| 4695-4700 | As above |
| 4700-4710 | Granular buff dolomite and granular grey green shale |
| 4710-4715 | Granular dolomite |
| 4715-4720 | Chert and dolomite |
| 4720-4730 | Angular to frosted sand, with pale buff dolomite |
| 4730-4750 | Finely crystalline dolomite buff |
| 4750-4755 | With pale green grey shale |
| 4755-4770 | Fine crystalline dolomite |
| 4770-4780 | As above with pale grey green shale |
| 4770-4785 | Fine crystalline dolomite buff |
| 4785-4790 | Finely crystalline dolomite with trace of chert and frosted sand |
| 4790-4810 | Sucrose grey buff dolomite |
| 4810-4815 | As above with greasy dark grey and maroon shale |
| 4815-4820 | Buff dolomite and chert |
| 4820-4850 | Grey buff dolomite sucrose |
| 4850-4855 | Chert |
| 4855-4860 | Grey sucrose dolomite |
| 4860-4890 | Buff sucrose dolomite |
| 4890-4895 | Grey green and maroon shale |
| 4895-4900 | Chert and buff dolomite |
| 4900-4910 | Buff sucrose dolomite |
| 4910-4920 | As above with chert |
| 4920-4950 | Buff sucrose dolomite |
| 4950-4955 | Chalky cchert |
| 4955-4985 | Buff sucrose dolomite |
| 4985-5000 | Coarsely crystalline dolomite |
| 5000-5010 | Buff sucrose dolomite |
| 5010-5015 | Angular sand |
| 5015-5025 | Green shale, frosted sand and phosphatic nodules |
| 5025-5034 | Green shale |
| 5034-5040 | Green shale, sand and dolomite, H. F. W. |
| 5040-5065 | Sucrose buff dolomite |
| 5065-5068 | Frosted sand and green shale |
| 5068-5082 | Green shale and dolomite |
| 5082-5100 | Sucrose buff dolomite |
| 5100-5105 | Sand and chert |
| 5105-5112 | Sucrose buff dolomite |
| 5112-5120 | Green shale |