

Eggleston Gas Well No. 1
Written in 1950

De P. Curry No. 1 Well.

Jack - 43

Ravengood District, Jackson County, W. Va.

By Joe Rubin, Norwood Johnson et al.

Located 2.6 mi. W. of 31° 33' and 2.22 mi. S. of 39° 00' -SOC-Ripley Quadrangle.

Elevation, 900±0 feet.

Gas well at Crisberry; gauge 2,500,000 cu. ft. per day after shot.

Completed May 1950.

Record Based on Examination of Samples.

Pennsian and Pennsylvanian, 1000 feet.

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|-----|-----|-----|---|
| 0 | 196 | 196 | No samples. |
| 196 | 196 | 9 | Sandstone, light-gray, medium-grained, loosely cemented; contains muscovite, biotite, chlorite and kaolin |
| 196 | 210 | 16 | Sandstone, white, coarse; with some gray silty shale |
| 210 | 215 | 5 | Shale, green, sandy |
| 215 | 220 | 6 | Shale, red, calcareous |
| 220 | 227 | 7 | Siltstone, green; with some light-brown, fine textured limestone |
| 227 | 230 | 11 | Sandstone, light-green, fine, micaceous; with some limestone as above; also some red and green shale and coarse white sand in bottom 4 feet |
| 230 | 245 | 7 | Shale, red, very soft, slightly calcareous |
| 245 | 266 | 20 | Siltstone, grayish-green, calcareous; sample missing from 230 to 250 |
| 265 | 287 | 22 | Shale, red, soft, calcareous |
| 287 | 304 | 17 | Siltstone, green, micaceous |
| 304 | 330 | 26 | Shale, red, very soft, calcareous; contains nodules or streaks of very fine textured light-gray to green limestone |

- 530 502 32 Siltstone, and very fine sandstone, green, micaceous
 532 530 23 Shale, red, soft, calcareous; with some impure
 limestone; samples contain aggregates of pyrite
 crystals, but none of these were seen actually
 enclosed in the shale
 530 500 4 Siltstone, green, micaceous; sample also contains
 considerable amounts of fine sand, red and green
 shale, light-brown limestone, and pyrite crystals
 530 400 12 Shale, red, soft, calcareous; some green siltstone
 in lower part of interval
 400 454 45 Sandstone, light-gray to slightly greenish, loosely
 cemented, medium-grained at top, grading into
 coarse at bottom; samples also contain some limestone,
 red shale, and green siltstone, which may be mostly
 covings
 454 450 6 Shale, grayish-green, sandy; with considerable
 sandstone like that above
 450 612 62 Sandstone, light-gray to greenish, medium-grained,
 loosely cemented; contains monocryst., biotite,
 chlorite, pyrite, and kaolin
 612 510 7 Limestone, light-brown, pyritic; with considerable
 green siltstone
 510 526 7 Siltstone, green, micaceous
 526 537 11 Shale, red, very soft, calcareous
 537 536 20 Siltstone, green, micaceous; individual fragments
 vary from shale to very fine sandstone in texture
 536 533 17 Shale, grayish-green, slightly calcareous, partly silty
 533 500 7 Shale, red and green; with a little gray limestone
 530 507 7 Shale, grayish-green, silty
 507 611 14 Shale, gray and greenish; with small amounts of
 limestone, coal, and soft gray clay
 611 617 6 Clay, gray, with some limestone
 617 621 4 Siltstone, green, calcareous; with considerable
 yellow, fine textured limestone and some red shale
 621 634 10 Shale, grayish-green, silty; with some very fine
 textured yellow limestone

634	643	9	Sandstone, light-gray, medium-grained, containing some mica and kaolin
634	656	13	Siltstone, grayish-green, micaceous; with some gray and green clay and a little limestone
656	675	19	Clay and shale, green, calcareous; with considerable green siltstone
675	700	25	Clay and soft shale, red, yellow and green, highly calcareous; some limestone
700	730	50	Sandstone, grayish-green, fine to very fine, shaly
730	744	14	Shale, red, soft, calcareous
744	759	16	Shale, green, micaceous
759	761	32	Shale and clay, gray, calcareous; also some gray and green shale and gray limestone
791	856	64	Shale, red, soft, calcareous; besides red there is also some yellow, green, and gray; a large proportion of the fragments shale quickly when wet and might be called clay rather than shale; a small proportion of limestone, probably occurring as nodules in the shale, is present throughout
856	861	6	Shale, gray, silty
861	866	7	Shale, red, soft, calcareous
866	876	7	No sample
876	882	7	Sandstone, grayish-green, very fine; with considerable shale of various colors and some limestone
882	889	7	Limestone, nearly white; with large proportion of green siltstone and some red, yellow and green shale
889	902	15	Shale, gray to green, silty; with some light-gray to white limestone
902	937	36	Clay and soft shale, mixed gray, yellow and red; contains some small limestone nodules
937	944	7	Siltstone, green, with some soft shale as above
944	960	16	Clay, yellow and gray
960	965	26	Sandstone, light-gray, fine, micaceous; samples contain considerable shale and siltstone, perhaps mostly carbonates
965	1074	62	Sandstone, light-gray, mostly medium-grained, some coarse; contains a little mica, chlorite and kaolin
1074	1086	14	Shale, gray to greenish, silty; with some red and gray clay and small limestone nodules
1086	1096	3	Sandstone, fine, grayish-green, micaceous

1020	1120	24	Shale, gray, silty
1120	1130	6	Shale, dark-gray, sandy, micaceous
1130	1139	13	Sandstone, light-gray, fine, containing a little mica and kaolin
1139	1140	8	No sample
1140	1152	14	Sandstone, gray, fine; lower half is finer, shaly and micaceous; all contains some gray shale
1152	1217	26	Sandstone, light-gray to white, medium-grained; many of quartz grains have crystal faces and there is a smaller proportion of other minerals than in most of the sandstones above
1217	1220	9	Sandstone, light-gray, fine, and dark-gray shale with traces of coal
1220	1224	8	No sample
1224	1230	4	Sandstone, light-gray, fine; with much red shale, probably covings
1230	1300	62	Sandstone, light-gray, medium-grained, containing mica, chlorite and kaolin and in some samples traces of coal
1300	1310	15	Shale, gray, silty
1310	1316	8	Shale, dark-gray
1316	1326	7	Sandstone, dark-gray, very fine, shaly
1326	1376	50	Shale and siltstone, gray to dark-gray, micaceous; a little coal in last 6 feet
1376	1400	35	Sandstone, light-gray, fine; contains muscovite and biotite and small brown specks which are probably altered siderite
1400	1419	11	Shale, dark-gray, silty
1419	1434	15	Sandstone, light-gray, fine, micaceous
1441			Depth corrected from 1434 to 1441 by steel line measurement
1441	1471	80	Shale, black, carbonaceous and pyritic; most of this is coarse enough to be practically a siltstone
1471	1500	58	Siltstone, dark-gray, micaceous
1500	1511	8	Sandstone, light-gray, fine, with streaks of mica and carbonaceous material
1511	1550	80	Shale and siltstone, dark-gray, micaceous

1690 1690 50 Sandstone, light-gray; 17 feet at the top is fine
and the rest medium-grained; all contains a
little silt and kaolin.

Greenbrier Limestone, 150 feet

1690 1690 6 Limestone, light-brown (gray when dry), very fine
textured; with large amount of green shale
containing round dark spots.

1691 1691 15 Limestone, nearly white, very fine textured

1691 1690 19 Limestone, light brownish gray; mostly very fine
textured but a few fragments are obviously crystalline

1690 1690 30 Limestone, light brownish gray to nearly white,
mostly very fine textured; contains a little
fine sand with some of grains fairly well rounded
and surfaces frosted or etched; from 1690 to 1691
contains some indistinct small round masses

1660 1682 22 which suggest colites but are probably not true colites
Limestone, nearly white to light brownish gray, mostly
very fine textured, slightly sandy

1682 1690 6 Sandstone, light-gray, carbonaceous, with larger
grains rounded and frosted; sample also contains
some limestone like that above

1690 1690 10 Sandstone, white, carbonaceous, with larger grains
rounded and frosted; considerable limestone in
bottom 3 feet

1690 1710 12 Limestone, light-gray, sandy, with larger sand grains
rounded and frosted; contains bright-green
glauconite and in upper 4 feet a few colites

1710 1720 10 Limestone, light-brown, silty, slightly dolomitic

1720 1730 10 Saltstone, light-gray, dolomitic, containing a
little glauconite; at the bottom is a small amount
of sandstone with some coarse rounded grains and
dolomite cement; it is considered as marking the
base of the Greenbrier Limestone.

Hanover Formation, 463 feet

1730 1767 57 Shale, gray, silty, interstratified with grayish-
green micaceous siltstones

1767 1769 22 Sandstone, nearly white, medium-grained, almost
all quartz; some pyrite at top

1760	1815	26	Sandstone, gray, fine to very fine; with some dark or gray micaceous shale and siltstone
1815	1860	9	No sample
1860	1940	27	Sandstone, gray, fine; with streaks of darker gray silty shale
1940	1960	30	Shale, gray, silty, micaceous, interstratified with lighter gray micaceous siltstone; most of the siltstone is slightly calcareous, and below 1902 it contains fossil shell fragments
1960	1975	10	Siltstone, gray, calcareous, highly fossiliferous, with some darker gray shale
1975	1990	18	Shale, gray, with nearly equal amount of lighter gray, somewhat calcareous siltstone
1990	1995	17	Siltstone, gray, slightly calcareous with some darker gray shale
1995	2150	120	Shale, gray, silty, micaceous, interstratified with light-gray to greenish-gray siltstone which decreases in amount toward the bottom of the interval; siltstone is calcareous in sample from 1995 to 1991 and slightly so in some other samples
2160	2190	28	Shale, dark-gray to black, pyritic (Gambey Shale)
2190	2205	5	Sandstone, light-gray, very fine, pyritic (Deren sandstone)

Inversion Shales, 2400 feet

2190	2200	10	Shale, gray, silty; contains some fossil shells in which small amounts of pyrite, galena and yellow sphalerite are associated with the calcite
2200	2265	50	No samples
2265	2471	210	Shale, gray to greenish-gray interbedded with siltstone of about the same color; nice, pyritic and small specks of carbonaceous material are present throughout
2471	2490	27	Siltstone, light-gray, pyritic, slightly calcareous; individual fragments vary in texture all the way from shale to very fine sandstone
2490	2520	325	Shale, gray to slightly greenish, with varying amounts of gray, slightly calcareous siltstone; several fossil fragments in siltstone from 2541

- to 2951 and a few in all samples from 2955 to 2980; both shale and siltstone are micaceous and contain some pyrite and carbonaceous material
- 2955 2955 545 Shale, gray, with some siltstone; similar to the interval above but color is mostly a little darker and average amount of siltstone less; fossil fragments seen only in samples from 2976 to 2983 and 2972 to 2982
- 2955 3750 412 Shale, gray, with some dark-gray to black in most samples; most samples contain small amounts of slightly calcareous siltstone; considerable pyrite is present throughout and most of it is in small spherical concretions
- 3750 3800 122 Shale, dark-gray to black, with considerable amount of lighter gray shale; contains considerable pyrite, partly in very small spherical concretions; also some small spar; sample from 3806 to 3816 contains some light-brown to gray, partly crystalline limestone and other samples from 3800 to 3807 contain a very little of this limestone
- 3800 4000 503 Shale, gray to slightly greenish; in several samples in the upper part there are fragments of black shale with spores, perhaps savings from above; small amounts of carbonaceous material are present throughout and all of the shale contains some pyrite
- 4200 4440 143 Shale, medium-gray 00 to 00 per cent, dark-gray to black 40 to 50 percent; all samples contain abundant pyrite, some in good octahedral crystals; at 4234 to 4242 is a little fine-textured gray dolomite, at 4343 to 4345 some brown vein calcite and at 4337 to 4338 a little gray limestone
- 4440 4450 10 Shale, dark-gray to black, with considerable pyrite
- 4480 4485 15 No sample
- 4485 4477 12 Shale, dark-gray to black, with considerable pyrite
- 4477 4490 15 Limestone, light-gray to brownish, very fine textured; sample much stained by iron rust
- 4490 4514 24 Shale, dark-gray; all samples from 4440 to 4514 appear to be somewhat contaminated; besides metallic iron they contain some sand and limestone

4614 4632 96 Shale, medium-gray, slightly calcareous, with some pyrite
4632 4638 46 Shale, dark-gray to black, slightly calcareous, pyritic

Bunker Hill Chert, 100 (100?) feet

4638 4646 7 Limestone, brownish-gray, fine textured except for fossil shales; fragments not reduced in size by acid treatment, and are broken and porous
4638 4650 8 Limestone, brownish-gray, cherty, fine textured; with considerable amount of siltstone, rich in mollite; there is some dolomite in the chert
4638 4650 12 Limestone, gray, cherty, very fine textured; a little glauconite from 4612 to 4630
4630 4647 27 Limestone, light-gray to brown, cherty; most of the calcite is obviously crystalline, nearly all the chert is of the translucent solid type; a little dolomite is present; in samples from 4630 to 4632 and 4638 to 4641 there are many small black spots which are perhaps a solid petroleum residue
4647 4656 9 Limestone, light-gray, cherty, silty and dolomitic; contains a little glauconite; most of the calcite is distinctly crystalline
4656 Depth corrected by steel line measurement from 4638 to 4641, which would make total thickness of Bunker Hill Chert 100 feet if applied to the top
4641 4670 29 Limestone, light-gray, same as 4647 to 4656 above; some fragments are siltstone rather than limestone
4670 4674 4 Limestone, gray, a little darker than last, very cherty, with some dolomite rhombs embedded in the chert
4674 4684 10 Limestone, light-gray to brownish, cherty, with some dolomite, silt (quartz) and a little glauconite
4684 4688 4 Limestone, brownish-gray, cherty, with dolomite rhombs in the chert
4688 4692 1 Sandstone, gray, fine, calcareous, glauconitic; many of sandy grains are well rounded
4690 4690 1 Limestone, sandy, cherty and glauconitic
4690 4691 1 Siltstone, gray, highly calcareous, and glauconitic; with considerable compact chert

4691 4704 15 Limestone, light-gray, chart, with small amount
of dolomite and glauconite

Orthocerous Sandstone, 17+ feet

4704 4706 2 Sandstone, light-gray, medium-grained, moderately
calcareous, with grains rounded and frosted or
etched; in the spaces between the sand grains
there is a black material with pitchy luster
which may be a solidified petroleum residue

4706 4691 15 Sandstone, light-gray, medium to fine-grained,
slightly carbonaceous; gas pay at contact
in sample from 4707 to 4708 which consists of
chips up to $\frac{1}{2}$ inch, most of this sandstone is
broken up fine

4691

Total depth