

New Location...
 Drill Deeper.....
 Abandonment.....

7.5' loc *calc elev 200*
0.385 29° 17' 30" *3.265*
1.94W 78° 37' 30" *4.17W*

Company M. E. ANDERSON
 Address 311 MARKET ST. WARREN, PA.
 Farm J. E. & BURSIE ORNDORFF
 Tract 3 Acres 35.5 Lease No. 3
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1281
 Quadrangle HANGING ROCK - SC August 25 1904
 County HAMPSHIRE District SHERMAN
 Engineer J. Morris
 Engineer's Registration No. 1739
 File No. _____ Drawing No. _____
 Date FEBRUARY 21 1955 Scale 1" = 300'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. HAMP-5

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Hanging Rock

WELL RECORD

Permit No. Hamp-5

Oil or Gas Well Gas
(KIND)

Company Transcontinental Production Company
Address 3100 Travis St., Houston, Texas
Farm J. E. & Bursie Orndorff Acres 35.5
Location (waters) _____
Well No. 1 Elev. 1281
District Sherman County Hampshire
The surface of tract is owned in fee by Bursie Orndorff, et al
Address Augusta, W. Va.
Mineral rights are owned by Transcontinental Prod. Co.
Address Houston, Texas
Drilling commenced January 30, 1955
Drilling completed September 15, 1956
Date frac 6-4-56 From 4808 To 4876
With 1,000 gal. acid, 4,000 gal. Petrojel,
5,000 # Sd.
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 412 MCF/Day After Frac Cu. Ft.
Rock Pressure 2050 PSI ~~xxx~~ 24 hrs.
Oil None bbls., 1st 24 hrs.
Fresh water _____ feet _____ feet
Salt water None feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
18			Kind of Packer _____
18			B. Plug _____
10			Size of _____
xxx <u>8 5/8"</u>	<u>1382'</u>	<u>1382'</u>	Depth set <u>4876'</u>
xxx <u>7"</u>	<u>4813'</u>	<u>4813'</u>	
<u>5 3/16</u>			
<u>3</u>			Perf. top <u>None</u>
<u>2</u>			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

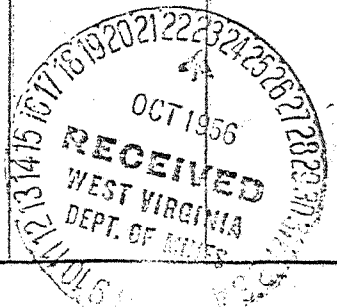
CASING CEMENTED 8 5/8" SIZE No. Ft. 3/5/55 Date
87 SXS 7" Cemented
COAL WAS ENCOUNTERED AT None FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay			0	10			
Slate			10	100			
Lime			100	113			
Shale			113	210	Water	152 & 180	
Lime			210	293	Water	226	
Slate			293	420	Water	376	
Lime			420	530			
Slate			530	660			
Lime			660	685			
Slate			685	828			
Lime			828	895			
Slate			895	1890			
Shale			1890	1920			
Slate			1920	2036			
Lime			2036	2054			
Slate			2054	2780			
Lime			2780	2842			
Sand			2842	2893			
Lime			2893	3516			
Slate			3516	4297			
Lime			4297	4365			
Shale			4365	4715			
Lime			4715	4800			
Shale			4800	4813	Gas	4813	Oriskany
Sand			4813	4976	Gas	4869	Oriskany
Lime			4976	6500			
Sand			6500	6527			
Lime			6527	7935			
Sand			7935	8030	Total Depth		

8030
4715
3315

7935
1281
6654

575



(Over)

4715 4813
1281 1281
3434 3520

OPERATOR M. E. Anderson FARM NAME Orndorff No. 1
TOWNSHIP Gore District COUNTY Hampshire STATE West Virginia
LOCATION Hanging Rock Quadrangle - Section H 2000' from W line
17,000' from N line
ELEVATION 1281

DESCRIPTION

100 - 107 Siltstone, dark and medium gray (70-30%). A little yellow to buff siltstone.

107 - 138 Missing

138 - 180 Siltstone, medium gray, some nearly very fine sandstone. Some yellow to buff, as above.

180 - 192 Shale, medium gray, silty.

192 - 205 Shale, medium gray, not silty.

205 - 212 Shale, medium gray, some fragments silty or sandy.

212 - 225 Siltstone, medium gray.

225 - 235 Missing

235 - 260 Shale, medium gray, silty, very slight trace calcite and quartz and pyrite.

260 - 279 Missing.

279 - 320 Shale, medium gray, silty, very slight trace calcite, quartz and pyrite.

320 - 370 Shale, medium gray, silty with about 50% dark gray siltstone, trace pyrite.

370 - 411 Shale, as above, but only trace of siltstone.

411 - 458 Sandstone, very fine grain, medium to light gray, some shale as above, trace quartz.

458 - 537 Shale, and siltstone, medium gray, with some very fine sandstone, medium gray.

537 - 575 Shale, medium gray, trace calcite.

575 - 669 Shale, as above, slightly silty, brachiopod fragments (rare) @ 603-13.

669 - 704 Shale and siltstone, medium, gray.

704 - 762 Shale, with some siltstone, medium gray.

762 - 767 Shale, medium gray, silty, with some brick-red siltstone.

- 767 - 772 Siltstone, brick red, with some medium gray shale.
- 772 - 803 Shale, medium gray, silty with some siltstone as above.
- 803 - 824 Shale, medium gray, with some medium gray siltstone.
- 824 - 832 Siltstone, red and medium gray.
- 832 - 897 Siltstone, medium gray, trace of red at top. Some shale interbeds. Trace pyrite.
- 897 - 913 Shale, medium gray, occasional silty streaks.
- 913 - 943 Shale and siltstone, 50-50, medium gray, trace pyrite. (Trace brown mud-rock 930-43)
- 943 - 1105 Shale, medium gray, with occasional siltstone, medium gray.
- 1105 - 1240 Siltstone, medium gray, and shale, silty, medium gray; occasional sand grains from about 1145-1200, sharp angular quartz (bottles again ??)
- 1240 - 1246 Shale, medium gray, trace very fine siltstone.
- 1246 - 1338 Siltstone, medium gray, rare slickensided fragments of quartz. Occasional grains - clear, angular, about .5 mm.
- 1338 - 1380 Siltstone, as above, quartz grains, common. Trace pyrite.
- 1380 - 1395 Siltstone, as above, quartz grains fade out.
- 1395 - 1719 Siltstone and shale, medium gray.
- 1719 - 1752 As above, with trace calcite and quartz.
- 1752 - 2068 Siltstone and shale, medium gray, trace pyrite. Some slightly darker gray seams.
- 2068 - 2402 ^{medium gray,} Shale and siltstone, trace pyrite.
- 2402 - 2580 Siltstone and shale, medium gray, with occasional sharp clear quartz and calcite grains, about .5 mm. Quartz and calcite grains rare below 2546.
- 2580 - 2793 Shale, medium blue-gray, rare milky calcite grains about 2 mm, plus some silty material, same color or slightly lighter.
- 2793 - 2842 Siltstone, with shale interbeds, medium blue gray, trace pyrite. Gradational change from above.
- 2842 - 2855 Siltstone, medium to dark gray. Nearly very fine sandstone, very slightly calcareous, trace of quartz grains - angular, about 1 mm. Trace calcite.
- 2855 - 2898 Siltstone, medium gray.

- 2898 - 2952 Shale, medium to dark gray, silty, trace calcite.
- 2952 - 3001 Siltstone, medium to dark gray, trace pyrite.
- 3001 - 3475 Shale, dark gray, trace pyrite and calcite. Brachiopod fragments @ 3362-72, 3382-93, and on down.
- 3475 - 3950 Shale, as above, occasional fragments slightly calcareous. Occasional brachiopod fragments.
- 3950 - 4100 Shale, as above, pyrite has been gradually getting more scarce. Only very small trace now.
- 4100 - 4275 Shale, as above, pyrite essentially absent (4159-90 fragment of quartz crystal, fragment is $2\frac{1}{2}$ mm, crystal must have been much larger). (4210-26 - Slickensided fragment.)
- 4275 - 4297 Shale, as above, pyrite re-appearing.
- 4297 - 4320 Shale, dark gray, very slightly calcareous.
- 4320 - 4341 Shale, dark gray, very finely silty, with a little medium gray siltstone, some fragments of both very slightly calcareous. Trace calcite.
- 4341 - 4405 Shale, dark gray, trace calcite and quartz, slickensides ?
- 4405 - 4474 Shale, dark gray, very finely silty, some fragments are very slightly calcareous. Trace calcite.
- 4474 - 4604 Shale, dark gray to black, trace calcite, trace pyrite. (Around 4600 shale has gradually gotten sooty-black. Pyrite plentiful.)
- 4604 - 4695 Shale, black, sooty, slightly calcareous; trace pyrite and calcite.
- 4695 - 4707 Shale, black, sooty, calcareous Bentonite, less than 2% of sample, trace pyrite and calcite.
- 4707 - 4758 Shale, dark gray, slightly calcareous, trace pyrite and calcite, trace bentonite @ 4707-23.
- 4758 - 4784 Shale, as above, very slightly calcareous.
- 4784 - 4795 Shale, dark gray, some fragments, slightly calcareous.
- 4795 - 4808 Shale, dark gray to black, calcareous, trace calcite and pyrite.
- 4808 - 4813 Shale, as above, w/sandstone, very fine grained, calcareous cement.
 2- mcf Grains are sharp, angular, poorly sorted, up to 1 mm., but average much less. Some ss fragments cemented with pyrite.
- 4813 - 4817 Sandstone and shale, shale as above. Sandstone is medium gray, fine grained, calcareous. Some grains sharp and angular, others well rounded and frosted. Range up to 1 mm., poorly sorted, with some zones poorly sorted.

- 4817 - 4830 Sandstone, as above, very fine grain, well sorted; shale in first sample. Trace pyrite. Grains run about .3 mm, cement medium to dark gray.
- 4830- 4897 Sandstone, as above, but cement clear. Overall color near white.
- 4897 - 4904 Sandstone, very fine grained, calcareous, medium gray, not as pure as above. Grains sub-angular to sub-rounded. Well cemented, poorly sorted.
- 4904 - 4917 Sandstone, light to medium gray, very fine grained, calcareous. Sorting fair.
- 4917 - 4926 Sandstone, white, pure, very fine grain, calcareous; sorting fair to poor.
- 4926 - 4936 Sandstone, as above, sorting good.
- 4936 - 4939 Sandstone, as above, sorting poor.
- 4939 - 4946 Sandstone, as above, sorting poor, getting coarser (1 mm.), fine grain, near medium.
- 4946 - 4963 Sandstone, as above, sorting poor, very fine grained.
- 4963 - 4974 Sandstone, as above, sorting good, very fine grained.
- 4974 - 4980 Sandstone, light to medium gray, very fine grain, well sorted, calcareous.
- 4980 - 5005 Sandstone, medium gray, very fine grain, well sorted, calcareous, well cemented.
- 5005 - 5016 Sandstone, dark and medium gray, very fine grain, well sorted, calcareous, well cemented.
- 5016 - 5029 Sandstone, medium gray, very fine grain, well sorted, calcareous.
- 5029 - 5034 Sandstone, very fine grain, light gray, well sorted, calcareous.
- 5034 - 5051 Sandstone as above, medium gray.
- 5051 - 5095 Sandstone, medium-dark gray, very fine grain, well sorted, calcareous.
- 5095 - 5111 Sandstone, very fine grain, medium to dark gray, very well cemented, with about 50% siltstone, black; both are very calcareous. Trace calcite. Trace chert.
- 5111 - 5173 Siltstone, or silty shale, dark gray to black, calcareous, cherty with some dark gray very fine sandstone. Trace calcite.
- 5173 - 5190 Limestone, dark gray, silty, trace calcite and pyrite.
- 5190 - 5259 Limestone, light gray-white, amorphous, with chert (milky), and some dark gray shaly limestone at top. Trace pyrite.
- 5259 - 5273 Limestone, dark gray, non-crystalline, shaly.

- 5273 - 5317 Limestone, as above, with 50%+ limestone, medium gray, finely crystalline. Trace pyrite, occasional fossil fragments; trace chert.
- 5317 - 5352 Limestone, medium dark gray, micro-crystalline, Trace calcite. Occasional streaks of medium gray finely crystalline limestone; trace fossil fragments. Trace chert.
- 5352 - 5398 Limestone, as above, with slight trace pyrite, slightly sandy in streaks, especially 5352-61, 5378-93.
- 5398 - 5403 Limestone, as above, with 50% or more darker gray, slightly more pyrite. Occasional brachiopod fragments.
- 5403 - 5428 Limestone, medium dark gray, streaks of medium gray; micro-crystalline, trace calcite, pyrite, and chert.
- 5428 - 5527 Limestone, as above, some fragments with micro-fossils.
- 5527 - 5545 Limestone, medium-dark gray, non-crystalline, slight trace pyrite.
- 5545 - 5564 Limestone, dark gray, micro-crystalline, trace pyrite and calcite.
- 5564 - 5570 Dolomite, medium-dark gray, micro-crystalline, slightly sandy (very fine grain), trace pyrite and calcite.
- 5570 - 5647 Dolomite, medium-gray, micro-crystalline, trace pyrite and calcite. Trace chert.
- 5647 - 5717 Dolomite, medium to dark gray, micro-crystalline. Trace pyrite and calcite.
- 5717 - 5767 Limestone, slightly dolomitic, medium to dark gray, micro-to non-
(approx) crystalline, trace pyrite and calcite.
- 5767 - 5793 Limestone, not dolomitic, medium gray, micro-to non-crystalline, vein calcite common; trace pyrite.
- 5793 - 5893 Limestone, as above, calcite 25-35% of sample.
(approx)
- 5893 - 5914 Limestone, dark gray, slight brownish cast, almost non-crystalline, calcite 20% ±.
- 5914 - 5991 Limestone, dark gray, near black, calcite decreased (5%-), trace pyrite. Oolites @ 5917-22.
- 5991 - 6026 Limestone, as above, slightly shaly (occasional asphalt-like gobs 6021-26)
- 6026 - 6060 Limestone, as above, not shaly. Rare fossil fragments (brachiopods).
- 6060 - 6069 Limestone, medium to dark gray, non-crystalline, some calcite, trace pyrite.
- 6069 - 6102 Limestone, medium to dark gray, shaly, calcite varies, less than 50%, trace pyrite, some is oolitic, some finely crystalline or granular. Some silt, starting @ 6075.

- 6102 - 6107 Limestone, dark gray, slightly silty, micro-crystalline. Trace to some calcite.
- 6107 - 6122 Limestone, as above, not silty, not crystalline.
- 6122 - 6140 Limestone, dark gray, shaly, trace pyrite and calcite.
- 6140 - 6150 Limestone, dark gray, purer, trace pyrite and calcite.
- 6150 - 6210 Limestone, dark gray, slightly shaly, trace pyrite and calcite. Occasional silty streaks.
- 6210 - 6243 Limestone, medium to dark gray, micro-to non-crystalline, with calcite and trace pyrite.
- 6243 - 6375 Limestone, as above, but dark gray (gradual transition).
- 6375 - 6385 Limestone, as above, with a few silty streaks. Calcite has diminished to a trace.
- 6385 - 6500 Limestone, dark gray, non-crystalline, trace calcite and small trace pyrite.
- 6500 - 6509 Siltstone, medium to dark gray, calcareous, with some limestone as above.
- 6509 - 6513 Limestone, dark gray, very fine crystalline.
- 6513 - 6517 Limestone, dark gray, very fine crystalline with some calcite veining, trace light gray very fine crystalline, slightly silty limestone.
- 6517 - 6524 Limestone, dark gray very fine crystalline, with some calcite veining.
- 6524 - 6531 Limestone, dark gray very fine crystalline, with some calcite veining, with some light gray very silty very fine crystalline "dull" limestone.
- 6531 - 6534 Limestone, dark gray very fine crystalline with much calcite veining.
- 6534 - 6550 Limestone dark gray very fine crystalline, some associated calcite veining.
- 6550 - 6555 Limestone dark gray very fine crystalline, some associated calcite veining, with trace clear (vein?) quartz fragments.
- 6555 - 6567 Limestone, dark gray very fine crystalline, slight calcite veining.
- 6567 - 6569 Limestone, dark gray-dark brownish gray, very fine crystalline, with trace calcite veining.
- 6569 - 6580 Limestone, dark gray, very fine crystalline, trace calcite veining.
- 6580 - 6590 Limestone, gray-dark gray, fine crystalline (soft) slightly silty.
- 6590 - 6595 Limestone, dark gray very fine crystalline, slightly dolomitic, some (very soft) "dull" cryptocrystalline.

- 6595 - 6605 Limestone, dark gray very fine crystalline, slightly dolomitic with trace disseminated pyrite.
- 6605 - 6610
- 6610 - 6624 Limestone, dark gray, very fine crystalline.
- 6624 - 6630 Limestone, dark gray, very fine crystalline, much calcite, some clear quartz fragments, some light gray sandy limestone.
- 6630 - 6641 Limestone, dark gray, very fine crystalline, trace as above.
- 6641 - 6644 As above, with trace disseminated pyrite.
- 6644 - 6645 Shale, black-dark gray, very slightly limey (possibly slaty), some shaly limestone.
- 6645 - 6647 Limestone, dark gray, very fine crystalline.
- 6647 - 6658 Limestone, dark gray, very fine crystalline, with trace disseminated pyrite and calcite veining.
- 6658 - 6664 As above, some slightly shaly trace calcite veining.
- 6664 - 6670 Limestone, dark gray very fine crystalline, trace calcite veining.
- 6670 - 6686 As above, with much vein calcite, trace clear quartz and disseminated pyrite.

Probable Top Member - 6924

Probable Keuper - 7230 ±

Probable Medina 7850 ±

- 6686 - 6715 Limestone, medium to dark gray, very fine crystalline to non-crystalline, latter is darker; some vein calcite, trace pyrite.
- 6715 - 6730 Limestone, dark gray, non-crystalline, slightly shaly with calcite veins and trace pyrite.
- 6730 - 6762 Limestone, dark gray, non-crystalline, trace vein calcite and pyrite. Slightly cherty appearance on thin edges.
- 6762 - 6810 Limestone, as above, with some medium-dark gray very fine crystalline limestone.
- 6810 - 6852 Limestone, dark gray, very slightly shaly, non-crystalline, trace calcite, small trace pyrite.
- 6852 - 6854 Limestone, medium-dark gray, micro-crystalline, trace calcite, small trace pyrite.
- 6854 - 6879 Limestone, dark gray with slightly brownish cast, micro-crystalline, trace calcite and pyrite.
- 6879 - 6929 Limestone, as above with brownish cast dying out. Calcite increasing in 6897-6902.
- 6929 - 6933 Limestone, as above, with small amount (<5%) oolitic limestone - oolites about .3 mm average.
- 6933 - 6937 Limestone, oolitic, medium-dark gray, some almost light gray (cement color varies), trace pyrite.
- 6937 - 6940 Limestone, dark gray, micro-crystalline, trace oolites, trace calcite and pyrite.
- 6940 - 6993 Limestone, as above, much calcite @ 6940-49, 6958, 6971-78, 6988-90.
- 6993 - 7000 Limestone, as above, trace oolitic lime, some light gray to gray; much calcite.
- 7000 - 7008 Limestone, as above, 20% limestone light gray to gray, with oolite, much calcite.
- 7008 - 7050 Limestone, dark gray, cryptocrystalline, some fragments very fine crystalline, medium-dark gray; trace pyrite and calcite. Small fragments have cherty look - translucent on edges.
- 7050 - 7054 Limestone, as above, with < 5% oolitic limestone, as of 6933-37. Cavings?
- 7054 - 7126 Limestone, as above, with no oolitic limestone.
- 7126 - 7133 Limestone, dark gray, almost lithographic; trace calcite.
- 7133 - 7152 Limestone, dark gray, non- to micro-crystalline; trace calcite and pyrite.

- 7152 - 7184 Missing
- 7184 - 7229 Limestone, gray-dark gray, very fine crystalline to cryptocrystalline, slightly calcareous throughout, 25-30% @ 7184-94, amount calcite does not appear diagnostic.
- 7229 - 7233 Limestone, as above, trace light gray "dull" sandy limestone, trace gray-white-gray crystalline-fine crystalline, very silty, sandy, fossiliferous limestone (ostracod?)
- TENTATIVE TOP MC KENZIE 7233'.
- 7233 - 7278 limestone, white-light gray-gray, some mottled crystalline-fine crystalline fossils with brachiopod and ostracod fragments, very silty sandy interbedded with dark gray, fine-very fine crystalline gray-dark gray limestone, some dark gray shale.
- 7278 - 7308 Limestone, gray-light gray mottled with dark gray; fossils, ostracod and trace of oolites. Trace of fragments of very small brachiopods interbedded with limestone, dark gray very fine crystalline; 15-25% calcite. Trace of dark gray limy shale.
- 7308 - 7312 Limestone, dark gray very fine crystalline, slightly dolomitic. Shot hole 7335.
- 7312 - 7342 Limestone, gray-light gray-dark gray, mottled fossils interbedded with limestone, dark gray very fine crystalline slightly dolomitic.
- 7342 - 7345 Limestone, dark gray cryptocrystalline with very fine disseminated pyrite. Very slightly dolomitic.
- 7345 - 7360 Limestone, gray-dark gray mottled; fossils, ostracods interbedded with limestone, dark gray crypto very fine crystalline.
- 7360 - 7365 Limestone, dark gray very fine cryptocrystalline slightly dolomitic.
- 7365 - 7398 Limestone, gray-dark gray mottled; fossils; interbedded with limestone, dark gray very fine crystalline, slightly dolomitic. 5-10% calcite.
- 7398 - 7446 Limestone, gray-dark gray very fine cryptocrystalline slightly dolomitic, with very fine disseminated pyrite - some to 10% calcite.
- 7446 - 7466 Limestone, gray-dark gray mottled with gray-white, fine crystalline-crystalline, fossils; interbedded with limestone, dark gray very fine crystalline-crypto slightly dolomitic.
- 7466 - 7480 Limestone, gray-dark gray slightly brownish. Cryptocrystalline slightly dolomitic with trace of calcite.
- 7480 - 7489 As above, but with 15% of sample as limestone, gray-white-dark gray mottled, fossils with brachiopod fragment ("chowder type" limestone) probably fossiliferous stringer.

- 7489 - 7514 Limestone, dark gray very fine crystalline slightly dolomitic limestone.
- 7514 - 7526 Limestone, as above but with 20% gray-dark gray-white mottled fossils with some crystalline dolomite 5% calcite. Probably fossiliferous stringer.
- 7526 - 7551 Limestone, dark gray very fine crystalline slightly dolomitic 5% calcite.
- 7551 - 7558 As above, but with trace of crystalline fossiliferous "chowder type" limestone. (fossiliferous stringer)
- 7558 - 7599 Limestone, dark gray very fine cryptocrystalline slightly dolomitic trace of calcite.
- 7599 - 7607 As above, but with 10-15% dark gray-white-gray mottled fossiliferous (ostracods oolites) fossiliferous stringer.
- 7607 - 7612 Limestone, dark gray very fine cryptocrystalline slightly dolomitic with trace of gray-dark slightly limy shale.
- 7612 - 7616 As above, but with 10% fossiliferous type limestone. (stringer)
- 7616 - 7640 Limestone, dark gray very fine crystalline slightly dolomitic 7620-26 sample 50% gray cryptocrystalline. Hole shot at 7636.
- 7640 - 7653 Limestone, white-light gray with dark gray, mottled fossiliferous "chowder type" some light gray crystalline dolomite.
- 7653 - 7659 Limestone, dark gray very fine crystalline slightly dolomitic, some cryptocrystalline.
- 7659 - 7661 Limestone, dark gray cryptocrystalline slightly dolomitic, some very fine crystalline.

(cont'd)

- 7661 - 7663 As above.
- 7663 - 7670 Limestone, light gray to gray, cpt-xln.
- 7670 - 7675 Limestone, dolomitic, dark gray, interbedded with with light gray limestone.
- 7675 - 7707 Limestone, dolomitic, dark gray, very fine xln.
- 7707 - 7720 Limestone, light gray with dark gray mottling xln to very fine xln.
- 7720 - 7910 Limestone, dark gray to gray black, very fine xln to cpt-xln, dense, slightly silty and dolomitic, 10% calcite at 7790' and 7800', 25% at 7870' - 7890'.
- 7910 - 7920 Limestone, light gray, fine to very fine crystalline, some dark gray dolomitic limestone with fossils.
- 7920 - Top of Rochester
- 7920 - 7940 Siltstone, light gray to gray, very limy, some banding with shale partings ----- interbedded with light gray and dark gray limestone.
- 7940 - Top of Keefer
- 7940 - 7955 Sandstone, light greenish gray, angular to subangular, tight, very fine grain, limy. Thin siltstone and pinkish gray dolomitic limestone stringer near top.
- 7955 - 7970 Shale, pale, greenish gray, silty.
- 7970 - 7990 Dolomite, pinkish gray, cpt-xln.
- 7990 - 8005 Shale, light gray, silty, moderately limy with light gray silty cpt-xln limestone stringers.
- 8005 - 8010 Dolomite, pinkish gray, cpt-xln.
- 8010 - 8018 Shale, light gray, slightly silty, limy.
- 8018 - 8025 Dolomite, pinkish gray, cpt-xln.
- 8025 - 8028 Limestone, gray, cpt-xln, dolomitic.