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GEOLOGICAL REPORT

Clinton Oil Company

#1-V Bores

SW SE Sec. 6-35S-34W
Seward County, Kansas

by

WILLIAM R. ATKINSON

Geologist

GEOLOGICAL REPORT

Clinton Oil Company
#1-V Boles
SW SE Sec. 6-35S-34W
Seward County, Kansas

Commencement Date: 5/13/69
Completion Date: 6/2/69
Elevation: 2969 K.B. (Datum)
2961 G.L. (L. & S.)
Total Depth: 6715 Driller
6714 Dresser-Atlas
Contractor: Garvey Drilling Co., Rig #22
Electrical Surveys: Dresser-Atlas BHG Acoustilog, Dual Induction
Focused log.
Casing: Surface: 8 5/8" @ 1651'
Production: 5 1/2" @ 6714' w/400 ex.
Special Equipment: Baroid Gas Detecting Equipment from approxi-
mately 4145 to T.D.
Production: Keyes Sand; Gas: Upper Chester Lime; Gas;
Basal Chester Sand; Oil: St. Louis "A" Zone;
Oil.

Drilling of this well was witnessed and samples examined through the following intervals: Toronto-Lansing, 4,300'-4,600'; Marmaton, 5,200'-5,600'; Lower Morrow through St. Louis, 6,200'-6,715'. Periodic visits were made to the location to plot drilling time and check operation of the gas logging unit from 2,600' to and through all zones not designated above.

FORMATION TOPS AND STRUCTURAL COMPARISONS

	Clinton Oil Co. #1-V Boles, SW SE Sec. 6-35S-34W	Amarillo Nat'l. Gas Co. #1-6 Dowdy, NE NE SW Sec. 6-35S-34W	Relative Position
Heebner Shale	4344 (-1375)	4335 (-1385)	10' high
Toronto	4359 (-1390)	4348 (-1398)	8' high
Lower Toronto	4403 (-1434)	4400 (-1450)	16' high
Lansing	4466 (-1497)	4454 (-1504)	7' high
Kansas City	4762 (-1793)	4754 (-1804)	11' high
Marmaton	5192 (-2223)	5188 (-2238)	5' high
Cherokee	5582 (-2614)	5556 (-2606)	8' low

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Morrow Shale	5914 (-2945)	5893 (-2943)	2' low
Lower Morrow Keyes			
Sand Zone	6240 (-3271)	6210 (-3260)	11' low
Keyes Sand	6248 (-3279)	6228 (-3278)	1' low
Mississippian			
Chester	6271 (-3302)	6250 (-3300)	2' low
Upper Chester Lime	6324 (-3355)	6296 (-3346)	9' low
Basal Chester Sand	6578 (-3609)	6526 (-3576)	33' low
Ste. Genevieve	6620 (-3651)	6581 (-3631)	20' low
St. Louis	6668 (-3699)	6632 (-3682)	17' low
St. Louis "A"			
Zone porosity	6676 (-3707)	6637 (-3687)	20' low
Total Depth	6714 (-3746)	6725 (-3775)	

SAMPLE DESCRIPTIONS

Upper Toronto Limestone

4359-4394 Cream to light gray, chalky, faintly fossiliferous limestone. Slightly crystalline in part but mostly dense. Very poor visible small vug and fossilcast porosity in part. No shows.

Lower Toronto Limestone

4403-4435 Medium to dark gray, dense, chalky lime with small black fossil and shale inclusions interbedded with some buff colored medium crystalline lime and interbedded gray and black shale. A 20 unit methane gas increase logged as coming from 4404-4406 was described, at the time the interval was being drilled, as being from black carbonaceous shale contained in the samples from the subject interval. The porosity log of the hole does show 3 feet of low quality porosity from 4406-4409. Although this zone is of no economic importance in this well, it should be watched carefully in any additional tests drilled in the area. The mentioned porosity zone may be better developed in any nearby wells and may warrant evaluation.

Lansing Limestone

4466-4478 Cream to light buff, fine crystalline, slightly fossiliferous, slightly chalky limestone. No visible porosity. No shows.

4484-4502 Limestone as described above. More chalk than above. No visible porosity. No shows.

4502-4510 Medium gray, medium crystalline, slightly fossiliferous lime and light gray to cream colored, fossiliferous, oolitic lime with some oolitic porosity. No shows.

- 4542-4562 Samples from this interval were lost due to lost circulation encountered at 4578'.
- 4590-4610 Cream to light buff very fine crystalline, slightly cherty, very chalky lime. Poor to no visable porosity. No shows.

Marmaton

- 5242-5264 Cream to tan and buff colored, very fine crystalline, finely oolitic and oolitic lime. Good oolitic porosity. Slight, dull yellow fluorescence and slight questionable out in part. A mud gas increase of 11 units of methane was logged through this interval.

- 5342-5354 Cream to light gray, very fine crystalline to dense, very chalky lime. No visable porosity. No shows.

The above intervals were covered by drill stem test no. 1 given below:

D.S.T. #1 = 5236-5389

Tool open for 15 min with a weak blow which increased to good in 5 min.

Shutin 30 min.

Tool re-opened for 45 min with good blow which decreased to fair at end. No gas to surface.

Shutin 30 min.

Recovered 365 feet of drilling mud and 1890 feet of salt water.

ISIP 1453/30 min.

FSIP 1302/30 min.

FP 215-612 and 676-1106

HH 2588-2554

EHT 128° F

Chlorides of recovered salt water 121,000 ppm.

- 5392-5484 Light cream to buff and white to light gray, fine to medium crystalline, slightly fossiliferous, chalky to very chalky limestone with streaks of fine oolites and oolcasts. Poor visable porosity. No shows or mud gas increases.

- 5508-5530 White to light cream, fine to micro-crystalline, very chalky limestone. No visable porosity. No shows.

Lower Morrow Keyes Sand

- 6240-6244 Tan to gray, slightly glauconitic, coarse crystalline, fossiliferous, slightly sandy limestone. Many large,

loose individual, subangular to subrounded quartz grains and pebbles. Poor to no visible porosity. Mud gas reading of 12 units of methane

6244-6248 Gray to black fissil, micaceous shale. 2 units of methane gas.

6248-6270 Gray to clear, medium grained, poorly sorted, subangular, glauconitic, quartz sandstone. Fair visible porosity. Chunks of tan limestone inclusions in part. Many large, loose, quartz grains and pebbles noted in samples. Maximum mud gas reading of 90 units of methane.

Mississippian Chester

6271-6280 Cream, gray and tan, medium to coarse crystalline, very chalky limestone. No visible porosity, no gas increase.

The above described intervals were covered by drill stem tests numbers 2 and 3 given below:

D.S.T. #2 - 6244-6285
misrun due to packer seat failure.

D.S.T. #3 - 6251-6285
5/8 inch top choke and 3/4 inch bottom choke.
Tool open for 30 min pre-flow period with weak blow which increased to good in 1 minute. Gas to surface in 5 min.

Gas gauged 310 Mcf in 6 min.
Gas gauged 410 Mcf in 10 min.
Gas gauged 630 Mcf in 20 min.
Gas gauged 710 Mcf in 30 min.
Tool closed in 45 min for shutin pressure.
Tool re-opened for 90 min flow period.
Gas gauged 520 Mcf in 5 min.
Gas gauged 680 Mcf in 10 min.
Gas gauged 850 Mcf in 20 min.
Gas gauged 910 Mcf in 30 min.
Gas gauged 940 Mcf in 40 min.
Gas gauged 960 Mcf in 50 min.
Gas gauged 980 Mcf in 60 min.
Gas gauged 1,000 Mcf in 70 min.
Gas gauged 1,100 Mcf in 80 min.
Gas gauged 1,200 Mcf in 90 min.
Tool closed in 60 min for shutin pressure
Recovered 140 feet gas cut drilling mud.

ISIP 1676 in 45 min.
FSIP 1676 in 60 min.
FP 105-163 and 140-210
HH 3192-3055
BHT 142°
Chlorides of recovered mud 6,500 ppm
Mud system chlorides before test 2,900 ppm

Upper Chester Limestone

6324-6344

Cream to tan, fine to medium crystalline, rough textured, very oolitic, chalky limestone. Some small vug, fossilcast and oolitic porosity. Fractured. A mud gas increase which was irregular and streaked, judged to be indicative of relatively tight and possibly fractured reservoir rocks, was logged from 6324 to 6340. Three peaks of 40, 52 and 42 units of methane gas with intervening minimum readings of 25 units were logged.

The above interval was covered by drill stem test number 4.

D.S.T. #4 - 6306-6360 - 6304-6358 corrected to log depths. 1/4 inch top chock, 3/4 inch bottom chock. Tool opened and slid 15 feet to bottom. Weak blow throughout pre-flow period. No gas to surface. Closed in 40 minutes for shutin pressure. Tool re-opened for 60 min flow period with fair blow. Gas to surface in 22 minutes. Gas gauged 25.7 Mcf in 25 min. Gas gauged 25.0 Mcf in 30 min. Gas gauged 24.3 Mcf in 40 min. Gas gauged 23.9 Mcf in 50 min. Gas gauged 23.9 Mcf in 60 min. Closed in 60 min for shutin pressure. Recovered 202 feet of gas cut drilling mud. ISIP 1801/40 min. FP 210-233 and 210-210 FSIP 1755/60 min. HH 3120-3075 BHT 142°

Basal Chester Sandstone

6578-6618

Gray to white, fine to medium grained, calcareous, glassy, angular, quartz sandstone, some friable clusters with fair visible porosity, dark brown free oil in wet samples, fair fluorescence and good cut, interbedded with black fissile and gray subwaxy shales.

Mud gas readings through the interval of 6578 to 6610 were as follow:

6580 to 6586 - 19 units of methane maximum
6594 to 6598 - 27 units of methane maximum
6604 to 6608 - 17 units of methane maximum

Gas readings from the bottom-most sand interval, 6614 to 6618, which was drilled after running D.S.T. #5 at 6610, were masked by high readings of back-ground trip gas caused by contamination of the mud system with oil and gas produced during D.S.T. #5.

Sand with oil shows, as described above, was logged in this interval based on sample examination.

D.S.T. #5 - 6579-6610

Tool open 30 min for pre-flow period with good blow,
Gas to surface in 18 min.

Gas gauged 76 Mcf in 25 min.

Closed in 45 min for shutin pressure.

Tool re-opened for 90 min flow period with good blow of gas.

Gas gauged 124 Mcf in 5 min.

Gas gauged 76 Mcf in 15 min.

Gas gauged 62 Mcf in 25 and 35 min.

Gas gauged 44 Mcf in 45 and 55 min.

Gas gauged 34 Mcf in 65 min.

Gas gauged 24 Mcf in 75 min.

Gas gauged TSTM in 85 min.

Recovered 1,080 feet of fluid which was 450 feet of clean gassy oil (40.8° API gravity corrected to 60° F.), 360 feet of mud and heavily gas cut oil and 270 feet of heavily oil and gas cut mud (chlorides of recovered mud 4,000 ppm.)

ISIP 1972/45 min.

FSIP 1940/60 min.

FP 116-183 and 183-332

HH 397-3347

EHT 150°

Mississippian Ste. Genevieve Limestone
6620-6668

White very sandy, very fine crystalline, slightly chalky limestone with fine grained, angular, quartz grains, interbedded with streaks of smooth textured, microcrystalline to sublithographic, slightly chalky, dense, light gray limestone and white, very limey, very fine grained, chalky, quartz sandstone. No visible porosity or oil shows described.

Mississippian St. Louis Limestone (A Zone)

6668-6684 Grayish tan, very fine crystalline to succrossic dolomite with good even brown oil stain, good fluorescence and out. Very minute size intercrystalline porosity. White, light grayish-tan, opeque chert, tripolitic in part with dark brown oil stain and some translucent tan sharp chert.

Maximum mud gas readings of 18 units, 50 units and 13 units of methane were logged at 6671, 6678 and 6683 respectively. Intervening minimum readings of 7 units and 10 units were logged at 6675 and 6681 respectively.

The St. Louis A zone was covered by D.S.T. #6.

D.S.T. #6 - 6673-6690 = 6669-6686 corrected to log depths.

Tool open for 45 min pre-flow period with weak blow increasing to fair blow at end. No gas to surface.

Closed in 45 min for shutin pressure.

Tool re-opened for 60 min flow period with fair blow throughout. No gas to surface.

Recovered 1,620 feet of gas in drill pipe and 90 feet of heavily oil and gas cut mud.

ISIP 1647/45 min.

PSIP 1845/60 min.

FP 99-115 and 99-99

HH 3364-3347

BHT 148°

Based on production of oil and/or gas during drill stem test periods reported above and favorable electric log calculations, 5 1/2 inch production casing was run at 6714 feet and cemented with 400 sacks of cement.

W. R. Atkinson
Geologist

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DRILLING TIME

Drilling time by 1 ft. intervals from 2600 ft. to total depth

2600-2610	2	-	2	-	3	-	3	-	3	-	3	-	2	-	3	-	3
-2620	3	-	3	-	2	-	2	-	1	-	2	-	2	-	2	-	2
-2630	3	-	2	-	2	-	3	-	3	-	1	-	2	-	2	-	1
-2640	2	-	2	-	2	-	2	-	1	-	2	-	2	-	2	-	2
-2650	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2
-2660	1	-	2	-	2	-	2	-	2	-	2	-	2	-	1	-	1
-2670	2	-	2	-	2	-	1	-	2	-	2	-	2	-	2	-	2
-2680	2	-	3	-	2	-	2	-	2	-	2	-	2	-	2	-	2
-2690	2	-	1	-	2	-	2	-	2	-	2	-	3	-	2	-	2
-2700	2	-	3	-	2	-	2	-	2	-	2	-	2	-	2	-	2

2700-2710	4	-	3	-	4	-	8	-	7	-	7	-	6	-	6	-	4
-2720	4	-	4	-	4	-	4	-	3	-	3	-	4	-	3	-	4
-2730	4	-	4	-	5	-	5	-	5	-	5	-	3	-	3	-	3
-2740	3	-	2	-	2	-	2	-	4	-	2	-	2	-	2	-	3
-2750	3	-	3	-	3	-	2	-	2	-	3	-	2	-	3	-	3
-2760	2	-	2	-	3	-	3	-	2	-	1	-	1	-	2	-	3
-2770	2	-	2	-	2	-	3	-	3	-	2	-	2	-	3	-	4
-2780	5	-	5	-	2	-	3	-	3	-	3	-	3	-	3	-	3
-2790	5	-	3	-	5	-	4	-	3	-	3	-	3	-	3	-	3
-2800	3	-	3	-	3	-	3	-	2	-	2	-	2	-	2	-	2

Trip @ 2703

2800-2810	2	-	2	-	3	-	2	-	2	-	1	-	2	-	2	-	2
-2820	2	-	2	-	4	-	3	-	3	-	3	-	3	-	2	-	3
-2830	3	-	2	-	4	-	3	-	3	-	3	-	3	-	2	-	3
-2840	3	-	2	-	2	-	3	-	2	-	3	-	2	-	3	-	3
-2850	3	-	3	-	3	-	3	-	4	-	3	-	3	-	3	-	2
-2860	1	-	2	-	2	-	1	-	2	-	3	-	3	-	2	-	2
-2870	2	-	2	-	2	-	2	-	2	-	2	-	1	-	1	-	2
-2880	2	-	1	-	2	-	2	-	2	-	2	-	1	-	2	-	2
-2890	1	-	1	-	1	-	1	-	2	-	3	-	3	-	3	-	2
-2900	3	-	3	-	3	-	3	-	3	-	3	-	2	-	2	-	3

2900-2910	2	-	3	-	2	-	2	-	2	-	3	-	2	-	2	-	2
-2920	2	-	2	-	1	-	2	-	2	-	2	-	2	-	1	-	1
-2930	2	-	2	-	2	-	2	-	1	-	1	-	1	-	1	-	3
-2940	2	-	3	-	3	-	3	-	2	-	3	-	4	-	3	-	3
-2950	2	-	3	-	3	-	3	-	3	-	4	-	3	-	3	-	3
-2960	3	-	3	-	3	-	3	-	3	-	3	-	3	-	4	-	4
-2970	3	-	3	-	3	-	3	-	3	-	4	-	3	-	4	-	4
-2980	4	-	3	-	4	-	4	-	3	-	4	-	4	-	4	-	4
-2990	4	-	4	-	4	-	4	-	4	-	3	-	4	-	3	-	4
-3000	5	-	5	-	4	-	4	-	2	-	2	-	2	-	2	-	3

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3450-3460	3	-	4	-	3	-	3	-	3	-	4	-	4	-	4	-	4	-	4
-3470	4	-	3	-	4	-	4	-	4	-	4	-	5	-	5	-	4	-	5
-3480	4	-	4	-	3	-	3	-	3	-	1	-	2	-	1	-	2	-	2
-3490	2	-	1	-	2	-	2	-	2	-	2	-	2	-	4	-	4	-	3
-3500	1	-	2	-	1	-	2	-	1	-	2	-	2	-	2	-	2	-	3

3500-3510	2	-	2	-	2	-	2	-	3	-	3	-	3	-	5	-	4	-	3
-3520	3	-	4	-	2	-	2	-	2	-	2	-	1	-	3	-	3	-	2
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-3540	4	-	4	-	3	-	1	-	2	-	2	-	2	-	2	-	2	-	2
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-3570	2	-	4	-	4	-	4	-	3	-	5	-	5	-	6	-	5	-	3
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-3620	4	-	3	-	3	-	4	-	2	-	2	-	1	-	2	-	2	-	3
-3630	2	-	2	-	2	-	9	-	2	-	1	-	1	-	2	-	1	-	3
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-3660	6	-	5	-	3	-	2	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	$2\frac{1}{2}$	-	5
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-3700	4	-	5	-	3	-	2	-	3	-	4	-	4	-	5	-	3	-	3

1' correction

3700-3710	1	-	1	-	1	-	1	-	2	-	2	-	1	-	1	-	1	-	1
-3720	1	-	1	-	1	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	2	-	2	-	2	-	1
-3730	1	-	1	-	1	-	2	-	2	-	2	-	2	-	2	-	2	-	2
-3740	2	-	3	-	4	-	3	-	3	-	4	-	4	-	4	-	4	-	4
-3750	3	-	3	-	4	-	3	-	4	-	2	-	3	-	3	-	4	-	3
-3760	3	-	2	-	1	-	1	-	1	-	1	-	1	-	1	-	$\frac{1}{2}$	-	$\frac{1}{2}$
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-3790	4	-	4	-	5	-	4	-	4	-	4	-	4	-	4	-	4	-	5
-3800	4	-	4	-	4	-	4	-	3	-	4	-	5	-	4	-	4	-	4

3800-3810																			- 2
-3820	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	1	-	2
-3830	1	-	2	-	2	-	2	-	1	-	2	-	2	-	2	-	3	-	3
-3840	$\frac{1}{2}$	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	2	-	3	-		-	2
-3850	2	-	2	-	3	-	2	-	2	-	3	-	2	-	2	-	2	-	2
-3860	3	-	2	-	2	-	2	-	2	-	2	-	1	-	1	-	2	-	3
-3870	3	-	1	-	2	-	2	-	1	-	1	-	1	-	1	-	1	-	1
-3880	1	-	1	-	1	-	1	-	1	-	1	-	1	-	2	-	1	-	1
-3890	2	-	1	-	1	-	2	-	2	-	2	-	2	-	2	-	5	-	4
-3900	5	-	2	-	3	-	2	-	4	-	3	-	4	-	2	-	2	-	

drilling time missing
 from 3800 to 3810

1' correction

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3900-3910	4	-	4	-	3	-	3	-	3	-	4	-	4	-	3	-	3	-	3
-3920	4	-	3	-	2	-	3	-	4	-	3	-	4	-	5	-	4	-	2
-3930	3	-	2	-	3	-	3	-	3	-	3	-	4	-	3	-	2	-	2
-3940	2	-	2	-	2	-	2	-	2	-	2	-	2	-	1	-	1	-	1
-3950	2	-	2	-	1	-	2	-	2	-	1	-	2	-	2	-	2	-	1
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4000-4010	1	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	1	-	1	-	2	-	1	-	2
-4020	1	-	2	-	2	-	3	-	2	-	2	-	3	-	3	-	3	-	3
-4030	3	-	3	-	3	-	2	-	3	-	2	-	3	-	1	-	2	-	2
-4040	2	-	2	-	2	-	2	-	3	-	2	-	3	-	2	-	2	-	3
-4050	2	-	2	-	3	-	2	-	2	-	3	-	3	-	3	-	2	-	2
-4060	2	-	2	-	2	-	2	-	1	-	1	-	2	-	1	-	2	-	2
-4070	3	-	3	-	2	-	3	-	3	-	1	-	2	-	2	-	2	-	2
-4080	3	-	1	-	2	-	1	-	1	-	2	-	2	-	3	-	4	-	3
-4090	4	-	4	-	3	-	4	-	2	-	2	-	3	-	2	-	2	-	2
-4100	3	-	2	-	3	-	2	-	2	-	3	-	2	-	2	-	2	-	2

4100-4110	2	-	1	-	2	-	1	-	2	-	1	-	2	-	3	-	2	-	2
-4120	2	-	3	-	2	-	1	-	2	-	1	-	2	-	2	-	1	-	1
-4130	1	-	1	-	1	-	1	-	1	-	1	-	2	-	3	-	3	-	2
-4140	3	-	2	-	2	-	1	-	2	-	1	-	3	-	4	-	4	-	3
-4150	4	-	3	-	4	-	3	-	4	-	3	-	2	-	3	-	2	-	2
-4160	1	-	1	-	2	-	2	-	3	-	2	-	2	-	4	-	3	-	3
-4170	2	-	2	-	3	-	1	-	3	-	1	-	2	-	2	-	2	-	2
-4180	1	-	2	-	1	-	2	-	2	-	2	-	1	-	1	-	2	-	1
-4190	1	-	1	-	1	-	1	-	2	-	1	-	1	-	2	-	1	-	1
-4200	2	-	1	-	2	-	1	-	1	-	1	-	1	-	2	-	1	-	2

Trip @ 4160

4200-4210	1	-	2	-	1	-	1	-	1	-	2	-	1	-	1	-	1	-	1
-4220	2	-	1	-	1	-	2	-	1	-	2	-	1	-	2	-	2	-	1
-4230	2	-	1	-	2	-	1	-	2	-	2	-	2	-	2	-	2	-	1
-4240	1	-	2	-	1	-	1	-	2	-	2	-	1	-	2	-	1	-	1
-4250	1	-	1	-	2	-	1	-	2	-	1	-	2	-	1	-	2	-	2
-4260	1	-	1	-	2	-	2	-	1	-	2	-	1	-	2	-	1	-	2
-4270	1	-	1	-	1	-	1	-	2	-	2	-	1	-	2	-	2	-	1
-4280	2	-	1	-	2	-	1	-	1	-	1	-	1	-	1	-	1	-	1
-4290	2	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	2	-	2
-4300	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2

4300-4310	1	-	2	-	2	-	1	-	2	-	1	-	2	-	2	-	3	-	3
-4320	2	-	2	-	3	-	3	-	2	-	2	-	1	-	2	-	2	-	2
-4330	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	1
-4340	1	-	1	-	2	-	2	-	3	-	3	-	3	-	3	-	2	-	1
-4350	1	-	2	-	1	-	1	-	1	-	1	-	2	-	1	-	1	-	4

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4350-4360	4	-	2	-	3	-	2	-	2	-	2	-	1	-	1	-	1
-4370	1	-	1	-	2	-	1	-	1	-	2	-	3 ¹ / ₂	-	2 ¹ / ₂	-	2 ¹ / ₂
-4380	2	-	1 ¹ / ₂	-	2 ¹ / ₂	-	2	-	2 ¹ / ₂	-	2	-	3	-	4	-	3
-4390	4	-	3	-	4	-	2	-	2	-	2	-	2	-	3	-	3
-4400	2	-	2	-	2	-	2	-	3	-	2	-	3	-	3	-	3

4400-4410	2	-	4	-	3	-	3	-	2	-	2	-	3	-	3	-	4
-4420	6	-	5	-	2	-	2	-	3	-	3	-	3	-	2	-	2
-4430	2	-	2	-	2	-	2 ¹ / ₂	-	4 ¹ / ₂	-	3	-	4	-	4 ¹ / ₂	-	2
-4440	3	-	3	-	4	-	2	-	2	-	2	-	2	-	2	-	1
-4450	1	-	3	-	2	-	2	-	3	-	1	-	2	-	1	-	2
-4460	2	-	2	-	1	-	1	-	2	-	1	-	2	-	1	-	2
-4470	2	-	1	-	2	-	2	-	4	-	2	-	3	-	2	-	3
-4480	2	-	2	-	2	-	2	-	1	-	3	-	2	-	2	-	2
-4490	2	-	1	-	2	-	3	-	3	-	3	-	2	-	2	-	3
-4500	3	-	3	-	3	-	3	-	3	-	4	-	4	-	4	-	4

Trip @ 4499

4500-4510	3	-	2	-	2	-	1	-	1	-	2	-	2	-	2	-	3
-4520	2	-	3	-	3	-	3	-	3	-	3	-	3	-	3	-	3
-4530	3	-	3	-	4	-	3	-	2	-	2	-	2	-	2	-	2
-4540	2	-	3	-	2	-	2	-	2	-	3	-	4	-	2	-	3
-4550	2	-	3	-	3	-	3	-	3	-	3	-	4	-	3	-	3
-4560	4	-	2	-	2	-	3	-	4	-	4	-	5	-	5	-	5
-4570	4	-	4	-	5	-	4	-	4	-	3	-	5	-	5	-	5
-4580	8	-	8	-	4	-	4	-	5	-	6	-	4	-	3	-	2
-4590	2	-	2	-	2	-	2	-	3	-	3	-	2	-	4	-	3
-4600	1	-	2	-	1	-	1	-	1	-	1	-	2	-	3	-	3

Lost circulation @ 4568

4600-4610	2	-	1	-	3	-	2	-	3	-	2	-	2	-	2	-	3
-4620	2	-	2	-	2	-	3	-	2	-	2	-	3	-	3	-	3
-4630	3	-	3	-	2	-	3	-	3	-	3	-	3	-	4	-	2
-4640	2	-	2	-	2	-	3	-	4	-	4	-	4	-	3	-	3
-4650	2	-	3	-	1	-	1	-	1	-	2	-	2	-	2	-	1
-4660	2	-	2	-	2	-	2	-	2	-	2	-	3	-	3	-	2
-4670	3	-	3	-	3	-	4	-	3	-	3	-	4	-	3	-	2
-4680	1	-	2	-	2	-	2	-	1	-	1	-	2	-	2	-	2
-4690	2	-	2	-	2	-	3	-	2	-	2	-	2	-	3	-	3
-4700	2	-	2	-	3	-	2	-	2	-	2	-	2	-	3	-	3

2' correction

4700-4710	7	-	5	-	6	-	7	-	6	-	5	-	5	-	5	-	6
-4720	6	-	5	-	5	-	5	-	3	-	3	-	5	-	5	-	4
-4730	3	-	4	-	2	-	2	-	3	-	3	-	5	-	5	-	5
-4740	4	-	2	-	4	-	2	-	3	-	3	-	2	-	3	-	3
-4750	4	-	4	-	5	-	6	-	7	-	6	-	6	-	5	-	6
-4760	5	-	5	-	3	-	3	-	3	-	5	-	5	-	6	-	5
-4770	6	-	4	-	3	-	3	-	3	-	3	-	5	-	5	-	5
-4780	2 ¹ / ₂	-	2	-	2	-	3	-	2	-	2	-	3	-	3	-	1
-4790	3	-	2	-	2	-	3	-	2	-	2	-	3	-	3	-	2
-4800	3	-	2	-	2	-	2	-	2	-	1	-	2	-	3	-	2

Trip @ 4778

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4800-4810	2	-	2	-	3	-	2	-	2	-	2	-	3	-	3	-	3
-4820	3	-	2	-	3	-	3	-	2	-	2	-	2	-	1	-	2
-4830	2	-	1	-	2	-	2	-	2	-	2	-	2	-	2	-	2
-4840	2	-	2	-	2	-	2	-	3	-	3	-	2	-	3	-	2
-4850	2	-	4	-	2	-	2	-	2	-	2	-	3	-	2	-	3
-4860	3	-	2	-	2	-	2	-	2	-	3	-	2	-	2	-	3
-4870	2	-	3	-	4	-	3	-	4	-	4	-	4	-	3	-	3
-4880	3	-	2	-	2	-	4	-	2	-	2	-	2	-	1	-	2
-4890	2	-	2	-	2	-	2	-	2	-	2	-	2	-	3	-	2
-4900	3	-	2	-	2	-	2	-	3	-	2	-	2	-	3	-	2

4900-4910	2	-	1	-	2	-	2	-	3	-	1	-	2	-	2	-	2
-4920	2	-	2	-	2	-	2	-	2	-	2	-	3	-	2	-	2
-4930	2	-	3	-	3	-	3	-	4	-	3	-	4	-	5	-	2
-4940	3	-	3	-	2	-	3	-	3	-	2	-	3	-	2	-	2
-4950	3	-	3	-	2	-	1	-	2	-	3	-	2	-	2	-	3
-4960	1	-	1	-	2	-	2	-	1	-	1	-	1	-	1	-	1
-4970	1	-	2	-	2	-	2	-	2	-	3	-	2	-	2	-	2
-4980	2	-	4	-	2	-	2	-	4	-	2	-	3	-	3	-	4
-4990	4	-	3	-	4	-	3	-	4	-	4	-	4	-	5	-	4
-5000	5	-	4	-	5	-	5	-	6	-	5	-	8	-	3	-	3

Trip @ 4997

5000-5010	3	-	3	-	2	-	1	-	1	-	1	-	2	-	1	-	2
-5020	2	-	2	-	2	-	3	-	3	-	5	-	5	-	4	-	3
-5030	5	-	5	-	5	-	4	-	3	-	4	-	5	-	3	-	4
-5040	4	-	4	-	4	-	3	-	4	-	2	-	2	-	2	-	2
-5050	3	-	3	-	3	-	3	-	4	-	4	-	4	-	4	-	4
-5060	5	-	5	-	6	-	3	-	2	-	4	-	2	-	3	-	3
-5070	3	-	2	-	4	-	3	-	3	-	3	-	2	-	3	-	3
-5080	3	-	3	-	3	-	2	-	3	-	3	-	3	-	2	-	2
-5090	3	-	2	-	3	-	3	-	3	-	3	-	3	-	3	-	3
-5100	3	-	3	-	3	-	4	-	3	-	3	-	4	-	3	-	3

Short 1'

5100-5110	4	-	3	-	3	-	3	-	3	-	3	-	3	-	3	-	3
-5120	3	-	3	-	4	-	3	-	3	-	3	-	3	-	3	-	3
-5130	3	-	2	-	2	-	3	-	2	-	2	-	2	-	3	-	2
-5140	3	-	3	-	3	-	3	-	2	-	4	-	2	-	3	-	3
-5150	3	-	3	-	3	-	2	-	3	-	3	-	3	-	4	-	3
-5160	2	-	3	-	3	-	2	-	2	-	3	-	3	-	2	-	4
-5170	3	-	3	-	3	-	3	-	4	-	3	-	4	-	4	-	4
-5180	4	-	4	-	4	-	4	-	4	-	4	-	5	-	4	-	4
-5190	4	-	4	-	4	-	4	-	4	-	4	-	4	-	3	-	4
-5200	4	-	3	-	4	-	4	-	4	-	3	-	3	-	2	-	4

5200-5210	3	-	3	-	2	-	3	-	4	-	5	-	3	-	2	-	3 ³ / ₈
-5220	2 ¹ / ₂	-	4	-	4	-	2	-	2	-	2	-	1	-	4	-	4
-5230	3	-	2	-	2	-	3	-	3	-	3	-	3	-	4	-	3
-5240	3	-	4	-	3	-	4	-	4	-	4	-	3	-	3	-	2
-5250	1 ¹ / ₂	-	1 ¹ / ₂	-	1 ¹ / ₂	-	1 ¹ / ₂	-	1 ¹ / ₂	-	1 ¹ / ₂	-	1 ¹ / ₂	-	1 ¹ / ₂	-	1 ¹ / ₂

Trip @ 5214

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5250-5260	$\frac{1}{2}$	-	$\frac{1}{2}$	-	$\frac{1}{3}$	-	$\frac{1}{3}$	-	$\frac{1}{3}$	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	$\frac{1}{2}$	-	1
-5270	2	-	3	-	3	-	2	-	3	-	3	-	4	-	4	-	5	-	5
-5280	5	-	5	-	5	-	4	-	5	-	6	-	5	-	4	-	5	-	4
-5290	6	-	5	-	6	-	3	-	5	-	6	-	3	-	3	-	3	-	4
-5300	3	-	3	-	4	-	3	-	4	-	4	-	4	-	4	-	3	-	5

5300-4310	4	-	3	-	5	-	4	-	4	-	4	-	4	-	5	-	3	-	5
-5320	9	-	3	-	3	-	2	-	3	-	7	-	5	-	6	-	5	-	6
-5330	5	-	6	-	6	-	5	-	6	-	7	-	6	-	5	-	6	-	3
-5340	6	-	10	-	3	-	4	-	5	-	5	-	6	-	7	-	6	-	5
-5350	5	-	4	-	4	-	5	-	4	-	5	-	3	-	3	-	2	-	3
-5360	4	-	4	-	5	-	2	-	3	-	4	-	3	-	3	-	4	-	4
-5370	4	-	4	-	4	-	2	-	5	-	3	-	5	-	4	-	5	-	5
-5380	5	-	4	-	4	-	5	-	5	-	3	-	2	-	4	-	4	-	4
-5390	4	-	3	-	3	-	4	-	4	-	4	-	4	-	6	-	8	-	
-5400	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	2	-	2	

D.S.T. #1 5236-5389
 Trip @ 5389
 7' correction

5400-5410	2	-	2	-	2	-	3	-	3	-	2	-	2	-	3	-	2	-	3
-5420	2	-	2	-	2	-	2	-	2	-	2	-	2	-	3	-	2	-	2
-5430	2	-	2	-	2	-	2	-	3	-	2	-	3	-	2	-	2	-	4
-5440	3	-	2	-	2	-	2	-	2	-	2	-	2	-	2	-	3	-	2
-5450	2	-	3	-	2	-	2	-	2	-	3	-	2	-	3	-	3	-	2
-5460	2	-	3	-	2	-	4	-	3	-	2	-	3	-	4	-	2	-	3
-5470	2	-	3	-	3	-	3	-	2	-	2	-	3	-	2	-	3	-	2
-5480	3	-	2	-	2	-	2	-	2	-	2	-	3	-	2	-	2	-	3
-5490	2	-	2	-	3	-	3	-	1	-	2	-	2	-	2	-	3	-	3
-5500	2	-	3	-	3	-	5	-	5	-	4	-	4	-	3	-	4	-	4

5500-5510-	2	-	5	-	5	-	3	-	4	-	5	-	5	-	4	-	5	-	5
-5520	5	-	3	-	3	-	5	-	4	-	5	-	5	-	5	-	5	-	4
-5530	4	-	3	-	4	-	4	-	3	-	3	-	3	-	2	-	3	-	3
-5540	3	-	3	-	4	-	4	-	5	-	4	-	5	-	4	-	3	-	4
-5550	4	-	4	-	6	-	4	-	4	-	5	-	5	-	5	-	5	-	4
-5560	5	-	6	-	5	-	8	-	4	-	7	-	6	-	7	-	5	-	7
-5570	8	-	8	-	2	-	3	-	2	-	2	-	2	-	3	-	2	-	2
-5580	4	-	3	-	2	-	2	-	4	-	3	-	2	-	2	-	2	-	1
-5590	4	-	3	-	3	-	2	-	3	-	2	-	1	-	1	-	1	-	1
-5600	1	-	1	-	1	-	1	-	2	-	2	-	2	-	3	-	2	-	2

Trip @ 5563

5600-5610	2	-	2	-	3	-	3	-	2	-	3	-	3	-	2	-	3	-	3
-5620	2	-	4	-	2	-	4	-	3	-	3	-	3	-	4	-	4	-	3
-5630	2	-	3	-	3	-	2	-	2	-	3	-	3	-	2	-	3	-	3
-5640	2	-	3	-	3	-	2	-	1	-	2	-	1	-	2	-	3	-	2
-5650	2	-	1	-	1	-	2	-	2	-	2	-	2	-	3	-	3	-	3
-5660	4	-	3	-	4	-	1	-	2	-	2	-	2	-	1	-	1	-	3
-5670	2	-	1	-	1	-	2	-	1	-	1	-	2	-	1	-	1	-	1
-5680	2	-	2	-	1	-	2	-	2	-	1	-	2	-	2	-	2	-	1
-5690	2	-	2	-	2	-	2	-	1	-	2	-	3	-	2	-	2	-	2
-5700	2	-	2	-	3	-	3	-	2	-	3	-	1	-	3	-	3	-	2

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5700-5710	3 - 3 - 2 - 2 - 3 - 3 - 2 - 2 - 1 - 2	
-5720	2 - 1 - 2 - 3 - 2 - 1 - 1 - 2 - 2 - 3	
-5730	2 - 1 - 2 - 1 - 2 - 1 - 2 - 2 - 3 - 4	
-5740	1 - 1 - 3 - 2 - 1 - 2 - 2 - 2 - 1 - 1	
-5750	2 - 1 - 2 - 2 - 1 - 1 - 2 - 2 - 2 - 4	
-5760	3 - 1 - 2 - 2 - 1 - 2 - 2 - 1 - 2 - 2	
-5770	4 - 4 - 2 - 2 - 2 - 1 - 2 - 1 - 2 - 1	
-5780	1 - 2 - 4 - 5 - 4 - 3 - 3 - 3 - 2	1' correction
-5790	2 - 2 - 2 - 2 - 2 - 1 - 1 - 1 - 2 - 1	
-5800	2 - 3 - 4 - 4 - 1 - 1 - 2 - 1 - 1 - 6	
5800-5810	2 - 1 - 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2	
-5820	1 - 2 - 1 - 2 - 2 - 2 - 2 - 2 - 3 - 2	
-5830	2 - 2 - 3 - 5 - 7 - 8 - 2 - 2 - 2 - 2	
-5840	2 - 1 - 1 - 1 - 2 - 1 - 1 - 4 - 3	1' correction
-5850	3 - 4 - 4 - 5 - 4 - 5 - 7 - 3 - 2 - 3	
-5860	3 - 2 - 3 - 5 - 3 - 4 - 1 - 1 - 1 - 2	
-5870	2 - 2 - 2 - 2 - 2 - 1 - 2 - 1 - 2 -	
-5880	- 2 - 1 - 2 - 1 - 1 - 1 - 1 - 1 - 1	Trip @ 5872
-5890	1 - 2 - 2 - 2 - 3 - 2 - 2 - 2 - 2 - 3	
-5900	1 - 2 - 2 - 2 - 2 - 2 - 2 - 3 - 2 - 2	
5900-5910	1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 1 - 1	
-5920	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	
-5930	2 - 1 - 1 - 1 - 1 - 2 - 1 - 1 - 1 - 2	
-5940	1 - 1 - 1 - 1 - 1 - 1 - 1 - 2 - 2 - 2	
-5950	1 - 1 - 2 - 1 - 1 - 2 - 1 - 2 - 3 - 1	
-5960	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
-5970	2 - 1 - 1 - 2 - 2 - 2 - 1 - 2 - 1 - 1	
-5980	1 - 2 - 1 - 1 - 1 - 2 - 2 - 1 - 1 - 1	
-5990	1 - 2 - 2 - 1 - 1 - 1 - 1 - 1 - 2 - 1	
-6000	2 - 2 - 1 - 2 - 2 - 2 - 2 - 1 - 1 - 1	
6000-6010	2 - 2 - 1 - 2 - 1 - 1 - 1 - 1 - 1 - 1	
-6020	1 - 1 - 2 - 1 - 2 - 2 - 2 - 2 - 2 - 2	
-6030	2 - 2 - 2 - 2 - 2 - 1 - 2 - 1 - 1 - 1	
-6040	2 - 1 - 2 - 2 - 2 - 1 - 2 - 2 - 2 - 1	
-6050	2 - 1 - 1 - 2 - 2 - 1 - 2 - 2 - 2 - 1	
-6060	2 - 2 - 2 - 1 - 2 - 2 - 1 - 2 - 2 - 1	
-6070	1 - 1 - 2 - 2 - 2 - 1 - 1 - 2 - 1 - 1	
-6080	1 - 2 - 1 - 2 - 2 - 1 - 1 - 1 - 2 - 1	
-6090	2 - 2 - 2 - 1 - 2 - 2 - 2 - 2 - 1 - 1	
-6100	2 - 1 - 1 - 2 - 1 - 2 - 2 - 2 - 2 - 2	
6100-6110	2 - 1 - 1 - 1 - 2 - 1 - 1 - 1 - 2 - 2	
-6120	2 - 2 - 2 - 1 - 1 - 2 - 1 - 2 - 1 - 2	
-6130	1 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
-6140	1 - 1 - 1 - 2 - 1 - 1 - 1 - 1 - 1 - 1	
-6150	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1' short

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6150-6160 1 - 1 - 2 - 1 - 1 - 1 - 1 - 2 - 1 - 1
-6170 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1
-6180 2 - 2 - 1 - 1 - 1 - 2 - 1 - 1 - 2 - 1
-6190 1 - 2 - 2 - 1 - 1 - 2 - 1 - 1 - 2 - 1
-6200 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 2

6200-6210 1 - 2 - 1 - 1 - 2 - 1 - 2 - 1 - 1 - 2
-6220 1 - 1 - 2 - 1 - 2 - 1 - 1 - 2 - 1 - 1
-6230 1 - 1 - 2 - 1 - 1 - 1 - 2 - 1 - 1 - 2
-6240 1 - 2 - 1 - 1 - 1 - 2 - 1 - 1 - 2 - 1
-6250 1 - 2 - 3 - 3 - 2 - 1 - 1 - 2 - 1 - 2
-6260 2 - 2 - 2 - 2 - 1 - 2 - 2 - 2 - 2 - 2
-6270 2 - 2 - 3 - 1 - 2 - 2 - 2 - 2 - 2 - 2
-6280 4 - 4 - 3 - 4 - 4 - 5 - 3 $\frac{1}{2}$ - 3 - 3 $\frac{1}{2}$ - 3 $\frac{1}{2}$
-6290 4 - 3 $\frac{1}{2}$ - 1 - 1 $\frac{1}{2}$ - 2 $\frac{1}{2}$ - 2 - 5 - 4 - 2 - 2
-6300 2 - 3 - 4 - 2 - 3 - 4 - 3 - 4 - 4 - 2

D.S.T. #2 6244-6285
Mis-run
D.S.T. #3 6251-6285

6300-6310 4 - 4 - 2 $\frac{1}{2}$ - 2 - 2 - 4 - 3 - 3 - 3 - 2
-6320 2 - 1 - 2 - 4 - 4 - 1 - 4 - 2 - 2 - 3
-6330 2 - 3 - 2 - 1 - 2 - 3 - 3 - 3 - 3 - 3
-6340 2 - 3 - 2 $\frac{1}{2}$ - 2 $\frac{1}{2}$ - 2 - 2 - 3 - 2 - 3 - 3
-6350 2 $\frac{1}{2}$ - 2 $\frac{1}{2}$ - 3 - 3 - 3 $\frac{1}{2}$ - 3 $\frac{1}{2}$ - 1 $\frac{1}{2}$ - 1 $\frac{1}{2}$ - 2 $\frac{1}{2}$ - 2 $\frac{1}{2}$
-6360 3 $\frac{1}{2}$ - 3 $\frac{1}{2}$ - 3 - 2 - 3 - 2 - 2 $\frac{1}{2}$ - 3 $\frac{1}{2}$ - 3 - 2
-6370 1 - 2 - 2 - 2 - 2 $\frac{1}{2}$ - 1 - 1 - 1 $\frac{1}{2}$ - 1 $\frac{1}{2}$ - 1
-6380 1 - 1 - 2 - 1 - 2 - 2 - 1 $\frac{1}{2}$ - 2 $\frac{1}{2}$ - 1 - 1 $\frac{1}{2}$
-6390 3 $\frac{1}{2}$ - 1 - 3 - 2 - 2 - 2 - 3 - 2 - 3 - 2
-6400 2 - 2 - 2 - 3 - 3 - - 3 - 3 - 3 - 3

D.S.T. #4 6306-60

1' short

6400-6410 2 - 3 - 3 - 2 - 3 - 3 - 3 - 2 - 3 - 2
-6420 3 - 4 - 3 - 4 - 2 - 3 - 2 - 3 - 3 - 3
-6430 3 - 3 - 3 - 3 - 2 $\frac{1}{2}$ - 3 - 2 $\frac{1}{2}$ - 2 - 2 - 3
-6440 3 - 2 - 3 - 3 - 2 $\frac{1}{2}$ - 2 $\frac{1}{2}$ - 3 - 4 - 2 - 2
-6450 3 - 3 - 3 - 3 - 2 - 3 - 3 - 3 - 3 - 3
-6460 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 2 - 4
-6470 2 - 3 - 2 - 3 - 2 - 3 - 3 - 3 - 2 $\frac{1}{2}$ - 1 $\frac{1}{2}$
-6480 2 - 3 - 3 - 3 - 3 - 2 - 3 - 3 - 2 - 3
-6490 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 2 - 4
-6500 3 - 3 - 3 - 3 - 2 - 3 - 2 - 2 - 2 - 3

6500-6510 3 - 3 - 3 - 3 - 4 - 3 - 3 - 4 - 3 - 3
-6520 3 - 3 - 3 - 4 - 3 - 3 - 3 $\frac{1}{2}$ - 3 $\frac{1}{2}$ - 3 - 3
-6530 3 - 2 - 4 - 3 - 3 - 3 - 2 - 4 - 4 - 3
-6540 2 $\frac{1}{2}$ - 4 - 4 - 2 $\frac{1}{2}$ - 3 - 3 - 3 $\frac{1}{2}$ - 3 $\frac{1}{2}$ - 3 $\frac{1}{2}$ - 4 $\frac{1}{2}$
-6550 3 $\frac{1}{2}$ - 3 $\frac{1}{2}$ - 3 $\frac{1}{2}$ - 3 $\frac{1}{2}$ - 2 $\frac{1}{2}$ - 3 - 4 - 3 $\frac{1}{2}$ - 4 - 4
-6560 4 - 6 - 6 - 2 - 3 - 5 - 4 - 4 - 5 - 4
-6570 6 - 4 - 5 - 5 - 5 - 5 - 6 - 4 - 5 - 5
-6580 4 - 4 - 4 - 6 - 3 - 4 - 3 - 6 - 7 - 5
-6590 5 - 3 - 6 - 8 - 5 - 4 $\frac{1}{2}$ - 5 $\frac{1}{2}$ - 6 - 6 - 9
-6600 5 - 4 - 6 - 6 - 4 - 4 - 6 - 6 - 6 - 6

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6600-6610	7 - 5 - 6 - 6 - 5 - 7 - 11 - 14 - 5 - 6	DST #5 6579-6610
-6620	- 4 - 3 - 6 - 5 - 6 - 5 - 5 - 6 - 5	
-6630	5 - 5 - 7 - 7 - 8 - 7 - 8 - 7 - 9 - 8	
-6640	9 - 13 - 5 - 5 - 7 - 5 - 7 - 7 - 7 - 8	
-6650	8 - 8 - 7 - 6 - 7 - 8 - 5 - 9 - 7 - 7	
-6660	6 - 8 - 5 - 6 - 7 - 6 - 5 - 8 - 6 - 7	
-6670	7 - 7 - 8 - 6 - 6 - 7 - 6 - 7 - 6 - 7	
-6680	6 - 7 - 8 - 7 - 6 - 6 - 6 - 7 - 7 - 4	
-6690	3 - 3 - 4 - 5 - 6 - 7 - 6 - 11 - 8 - 10	DST #6 6673-6690
-6700	13 - 10 - 14 - 11 - 11 - 10 - 11 - 12 - 9 - 10	
6700-6710	5 - 13 - 12 - 11 - 7 - 7 - 8 - 10 - 11 - 12	
-6715	12 - 11 - 13 - 12 - 13	

T.D. 6715'