

Computer Inventoried

ORIGINAL

KCC

JAN 17 1998

HINKLE OIL COMPANY

#1-A SPENCE

NW NW NW SEC. 35-23S-18W

PAWNEE COUNTY, KANSAS

By

ORVIE HOWELL, GEOLOGIST

15-145-20660

STATE OF KANSAS
STATE CORPORATION COMMISSION

FEB 13 1998

Office of the Secretary
1200

HINKLE OIL COMPANY
#1-A SPENCE
NW NW NW Sec. 35-23S-18W
PAWNEE COUNTY, KANSAS

15-145-20660

STARTING DATE: February 20, 1980

COMPLETION DATE: March 6, 1980

DRILLING CONTRACTOR: Venture Drilling, Inc.

SURFACE CASING: Set used 8 5/8" 28# surface casing @342 with 275 sacks of cement.

DRILLING MUD COMPANY: Magcobar

CEMENTING COMPANY: Sun Cementing Company

DRILL STEM TESTING COMPANY: Western Testing Company, Inc.

OPEN HOLE ELECTRIC LOGS: Petro-Log Radiation Guard-CDL-Caliper

GAS DETECTOR: Analytical, Inc.

PRODUCTION CASING: A combination string of new 4 1/2" SLS K-55 9.5# and 10.5# production casing was set @4502' with 200 sacks of 60-40 posmix salt saturated cement. Rotating scratchers were spaced from 4020' to 4080' and 4340' to 4440'. Float @4470'.

ORIGINAL

The #1-A Spence was under geological supervision at the drillsite from 2200' to the total depth. 1' drilling time and 10' samples were obtained from 2200' to the total depth with 5' samples taken over selected intervals.

Tabulated below are the formation tops which were picked from samples and are correlated with the open hole logs. All measurements are from the rotary bushing elevation.

ELEVATION	2118 RB	2106 GL
-ANHYDRITE	1156 (+ 962)	TOPEKA 3365 (-1247)
HERINGTON-KRIDER	2229 (- 111)	HEEBNER 3737 (-1619)
WINFIELD	2290 (- 172)	BROWN LIME 3847 (-1729)
TOWANDA	2359 (- 241)	LANSING 3854 (-1736)
FT. RILEY	2407 (- 289)	BASE KANSAS CITY 4160 (-2042)
BASE FLORENCE FLINT	2497 (- 379)	CHEROKEE 4311 (-2193)
RED EAGLE	2842 (- 724)	MISSISSIPPIAN 4381 (-2263)
FORAKER	2908 (- 790)	MISSISSIPPIAN LIMESTONE 4439 (-2321)
PENNSYLVANIAN	3017 (- 899)	KINDERHOOK SAND 4472 (-2354)
STOTLER	3153 (-1035)	VIOLA 4494 (-2376)
TARKIO	3206 (-1088)	ROTARY TOTAL DEPTH 4500 (-2382)
BERN	3286 (-1168)	LOG TOTAL DEPTH 4506 (-2388)
HOWARD	3354 (-1236)	

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Zones of interest as described as follows: (Refer to strip log in pocket for additional lithology).

<u>HERINGTON-KRIDER</u>	<u>2229 (- 111)</u>
2229-2269	Dolomite, grey, very finely crystalline, speckled; no visible porosity interbedded with dolomite, grey, finely crystalline, with fair intercrystalline and vugular porosity; trace of greasy stain. 14 gas units-15 minute time duration, believed to come from 2242-2252. Not tested. Should be considered for perforation before abandonment.
<u>WINFIELD</u>	<u>2290 (- 172)</u>
2290-2318	Limstone, cream to grey, finely crystalline interbedded with limestone, tan to grey, dolomitic, finely crystalline; good intercrystalline and vugular porosity, questionable stain. 14 gas units-5 minute time duration. Not tested. Should be considered for perforation before abandonment.
<u>FT. RILEY</u>	<u>2407 (- 289)</u>
2410-2420	Limestone, mottled grey, slightly fossiliferous and cherty; fair pinpoint porosity. 16 gas units-6 minute time duration. Not tested. Should be considered for perforation before abandonment.
<u>RED EAGLE</u>	<u>2842 (- 724)</u>
2842-2860	Limestone, white to light grey, finely crystalline; good oocastic and pinpoint porosity. No shows.
<u>FORAKER</u>	<u>2908 (- 790)</u>
2908-2917	Limestone, white to light grey, finely crystalline, fossiliferous; good oocastic and pinpoint porosity. No shows.
<u>BERN</u>	<u>3286 (-1168)</u>
3286-3300	Limestone, white to cream, fine to coarsely crystalline; good pinpoint and vugular porosity; rare fluorescence, no odor, trace of free oil, trace of stain. 2 gas units. Did not merit testing.
<u>HOWARD</u>	<u>3354 (-1236)</u>
3354-3360	Limestone, cream, tan, medium crystalline; fair vugular porosity, questionable stain, no odor, no free oil, no fluorescence. Did not merit testing

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TOPEKA 3365 (-1247)
3602-3606 Limestone, grey to buff and white, finely crystalline, chalky and cherty; no visible porosity, trace of lightly spotted stain, no free oil, no odor. Did not merit testing.

LANSING 3854 (-1736)
3894-3901 Limestone, white to light grey, finely crystalline; poor to fair pinpoint and intercrystalline porosity, rare spotted fluorescence, very slight show of free oil, no odor. 2 gas units. Did not merit testing.
3930-3942 Limestone, white to medium crystalline, chalky; trace of pinpoint and intercrystalline porosity, rare spots of fluorescence, trace of free oil, no odor, no stain, no gas show. Did not merit testing.

DENNIS LIMESTONE (KANSAS CITY "J" or 180' ZONE) 4042 (-1924)
4042-4058 Limestone light grey, oocastic, moderately spotted medium brown stain, oocastic; good show of free oil, strong odor, heavily spotted fluorescence. 25 gas units.
(Covered by DST #1)
4073-4080 Limestone, buff and tan, finely crystalline, dense in part; scattered oocastic porosity, spotted fluorescence, show of free oil, spotted stain, faint odor.
(Covered by DST #1).

DRILL STEM TEST #1 4034-4078
Open: 30" - 30" - 60" - 60"
Gas to surface in 5" of second flow period, gauged 6,500 CFGPD
Recovered: 30' of heavy gas cut mud + 120' of very heavily oil and gas cut heavy mud + 120' of gassy muddy oil.
IFP: 30# - 93#
IBHP: 1111#
FFP: 60# - 105#
FBHP: 1193#

4090-4112 Limestone, white to light grey, finely crystalline; poor to fair intercrystalline and pinpoint porosity, lightly spotted fluorescence, show of free oil, faint odor, lightly spotted light brown stain.
(Covered by DST #2)

4132-4144 Limestone, grey, fine to medium crystalline, chalky and cherty; no visible shows.
(Covered by DST #2).

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DRILL STEM TEST #2 4077-4146

Open: 30" - 30" - 60" - 45"
Recovered: 420' muddy water
IFP: 30# - 111#
IBHP: 1263#
FFP: 60# - 213#
FBHP: 1184#

CHEROKEE 4311 (-2193)

4335-5337 Sandstone, fine grained, good show of black dead oil, no free oil, no odor, no fluorescence. No show of gas.
4349-4354 Sandstone, fine grained, friable, slight show of free oil, faint odor, no fluorescence, scattered medium brown stain. Not tested. Should be considered for perforation before abandonment.
4361-4364 Sandstone, fine to coarse grained, conglomeratic, trace of free oil, abundant black dead stain, no odor. Not tested. Should be considered for perforation before abandonment.

MISSISSIPPIAN 4381 (-2263)

4381-4410 Chert, white to light grey, 70 to 90% fresh, fair show of free oil, moderately spotted fluorescence, faint odor, light brown spotted stain. Gas detector off scale. (Covered by DST #3).

DRILL STEM TEST #3 4382-4410

Open: 30" - 30" - 60" - 45"
Gas to surface in 4" of initial flow period
Gauged: 10" 175 MCF
20" 274 MCF
30" 274 MCF
2nd Flow Period:
Gauged: 10" 288 MCF
20" 227 MCF
30" 133 MCF
40" 108 MCF
50" 108 MCF
60" 76 MCF
Recovered: 60' of gas cut mud + 60' of oil and gas cut mud + 180' of gassy muddy oil + 60' of very heavily oil & gas cut muddy water (Estimated 40% oil) + 300' of slightly oil and gas cut muddy water.
IFP: 30# - 274#
IBHP: 1353#
FFP: 60# - 304#
FBHP: 1313#

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COURT REPORT DIVISION

4410-4439	Chert and shows same as above. Not tested due to recovery of water on DST #3.
<u>KINDERHOOK SAND</u>	<u>4472 (-2354)</u>
4472-4488	Sandstone, white and clear to pale green, fine grained, calcareous with inclusions of rose pink fossiliferous limestone. No shows.
<u>VIOLA</u>	<u>4494 (-2376)</u>
4494-4506	Limestone, white to brown, finely crystalline, dolomitic, chalky with abundant white opaque chert interbedded with pink coarse crystalline chalky limestone. No shows.
<u>ROTARY TOTAL DEPTH</u>	<u>4506 (-2388)</u>

INITIAL COMPLETION RECOMMENDATIONS

For the initial completion on this well, it is recommended that the Mississippian section be perforated from 4385 to 4390, fracture treated and tested.

Respectfully submitted,
March 15, 1980


Orvie Howell, Geologist

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HINKLE OIL COMPANY
#1-A SPENCE
NW NW NW
SECTION 35-23S-18W
PAWNEE COUNTY, KANSAS

<u>DEPTH</u>	<u>ONE FOOT DRILLING TIME</u>	<u>REMARKS</u>
2200-2210	2-2-2-2-2/1-2-2-2-2	
2210-2220	2-2-2-1-3/4-3-2-2-2	
2220-2230	2-2-2-2-3/3-3-2-2-2	
2230-2240	3-2-2-1-2/2-2-1-2-2	
2240-2250	1-2-2-2-2/2-2-3-2-3	
2250-2260	3-3-4-4-2/2-2-2-2-1	
2260-2270	1-2-2-2-2/2-4-3-4-3	
2270-2280	3-1-4-2-3/2-3-2-2-2	
2280-2290	2-2-2-2-2/2-2-1-2-2	
2290-2300	1-3-3-3-3/3-2-3-1-2	
2300-2310	2-3-2-1-1/2-1-1-1-1	
2310-2320	1-1-1-1-1/1-1-1-1-3	
2320-2330	1-1-1-2-1/1-3-1-3-2	
2330-2340	2-2-2-3-3/2-3-2-3-3	
2340-2350	2-3-2-3-2/3-1-3-4-2	
2350-2360	2-2-3-2-2/3-2-2-2-2	
2360-2370	2-2-2-2-3/2-3-3-2-2	
2370-2380	2-3-3-4-3/4-3-3-2-3	
2380-2390	3-4-3-2-3/4-4-4-4-4	
2390-2400	6-6-6-6-4/5-2-2-2-2	
2400-2410	3-3-3-3-3/3-3-3-2-2	
2410-2420	2-1-1-1-2/2-2-3-3-3	
2420-2430	2-3-3-2-4/4-3-4-4-3	
2430-2440	4-4-3-4-4/3-3-3-3-3	
2440-2450	3-3-3-3-2/2-2-2-1-1	
2450-2460	2-2-2-2-2/2-1-2-1-1	
2460-2470	½-½-½-1½-1/1-2-2-3-3	
2470-2480	2-1½-1½-1-1/2-2-2-2-3	
2480-2490	4-3-3-4-5/3-3-4-4-4	
2490-2500	3-3-4-2-2/2-3-3-2-3	
2500-2510	2-3-2-3-2/2-1-1-2-3	
2510-2520	3-3-2-2-1/2-2-3-4-3	
2520-2530	4-3-3-2-3/2-3-2-2-2	
2530-2540	2-2-4-2-2/2-3-2-3-2	
2540-2550	1-2-2-2-3/1-2-2-2-2	
2550-2560	2-2-1-1-1½/½-½-1-2-1½	
2560-2570	1-3-2-3-3/3-4-3-2-2	
2570-2580	2-3-3-3-3/2-1-2-2-1	
2580-2590	1-1½-½-1-½/1-1-1½-2-1	
2590-2600	2-3-2-3-3/3-2-3-2½-3½	

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 WASHINGTON, D.C.

HINKLE OIL COMPANY
 #1-A SPENCE
 NW NW NW
 SECTION 35-23S-18W
 PAWNEE COUNTY, KANSAS

<u>DEPTH</u>	<u>ONE FOOT DRILLING TIME</u>	<u>REMARKS</u>
2600-2610	2-2-3-2-2/2½-2½-2-2-2	
2610-2620	2-2-2-3-2/3-3-3-3-3	
2620-2630	3-2-2-2-3/1-1-4-3-3	
2630-2640	2-3-2-2-2/2-2-3-2-2	
2640-2650	2-2-2-2-3/3-4-3-3-5	
2650-2660	3-3-2-3-3/2-2-2-3-3	
2660-2670	2-2-2-2-3/2-3-2-3-3	
2670-2680	4-3-2-4-3/3-4-4-3-3	
2680-2690	3-1-1-1-1/2-2-3-3-3	
2690-2700	2-3-3-3-3/3-4-4-4-4	
2700-2710	4-4-2-2-1/2-1-3-3-3	
2710-2720	3-2-3-2-3/3-3-2-2-2	
2720-2730	3-2-2-3-2/1-3-1-3-3	
2730-2740	3-5-3-2-4/1-2-2-2-2	
2740-2750	2-2-3-2-3/2-3-2-2-4	
2750-2760	3-3-3-2-2/3-2-2-2-2	
2760-2770	3-3-3-4-3/3-1-3-3-3	
2770-2780	4-5-5-4-3/2-3-3-3-3	
2780-2790	1-3-3-3-4/3-4-3-3-4	
2790-2800	3-2-1-2-2/2-4-5-4-4	
2800-2810	4-5-3-4-3/2-4-3-4-3	
2810-2820	1-2-2-3-3/2-3-3-3-4	
2820-2830	3-2-3-2-2/3-4-2-3-2	
2830-2840	1-1-2-3-2/3-2-3-1-1	
2840-2850	1-1-1-1-1/1-½-1½-1-1	
2850-2860	½-½-1-1-3/3-3-2-3-3	
2860-2870	2-3-4-3-3/4-3-2-2-2	
2870-2880	2-2-2-2-2/1-½-½-3-3	
2880-2890	3-2-2-1-2/1-1-1-1-1	
2890-2900	1-1-2-3-3/2-2-2-3-3	
2900-2910	2-3-2-1-1/1-1-½-½-½	
2910-2920	½-1-2-1-2/2-3-3-4-4	
2920-2930	3-3-3-4-3/4-4-3-3-4	
2930-2940	4-3-4-4-3/2-2-3-2-2	
2940-2950	2-3-4-4-4/4-5-5-5-5	
2950-2960	5-3-3-5-4/3-4-4-5-4	
2960-2970	4-2-2-2-1/1-1-1-1-1	
2970-2980	1-1-1-1-2/2-3-3-4-3	
2980-2990	3-3-3-4-3/4-3-2-3-3	
2990-3000	4-4-3-3-4/3-2-2-2-1	

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HINKLE OIL COMPANY
 #1-A SPENCE
 NW NW NW
 SECTION 35-23S-18W
 PAWNEE COUNTY, KANSAS

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<u>DEPTH</u>	<u>ONE FOOT DRILLING TIME</u>	<u>REMARKS</u>
3000-3010	1-1-3-3-3/3-2-1-1 $\frac{1}{2}$ - $\frac{1}{2}$	
3010-3020	1-1-1-1 $\frac{1}{2}$ -1/3 $\frac{1}{2}$ -4-4-3-4	
3020-3030	3-3-3-3-3/4-3-4-4-4	
3030-3040	3-3-3-3-3/4-2-2-3-3	
3040-3050	5-4-3-4-4/4-3-2-3-3	
3050-3060	3-3-3-4-2/3-3-3-4-4	
3060-3070	4-3-3-2-1/2-2-2-2-1	
3070-3080	2-4-4-3-4/3-4-3-3-2	
3080-3090	3-2-3-3-2/2-3-2-3-2	
3090-3100	2-2-3-2-2/3-2-2-3-2	Vis. 36 Wt. 9.4
3100-3110	2-2-2-3-2/2-3-2-3-2	
3110-3120	2-3-2-3-2/3-3-2-2-3	
3120-3130	2-2-2-3-1/2-3-1-3-1	
3130-3140	2-2-1-1-2/2-2-2-1-2	
3140-3150	4-3-1-2-2/1-1-2-1-2	
3150-3160	2-2-5-2-4/3-1-2-3-3	
3160-3170	4-4-5-5-3/2-2-4-4-3	
3170-3180	3-4-4-3-4/4-2-4-4-2	
3180-3190	4-3-4-3-5/5-4-4-3-2	
3190-3200	2-1-2-1-1/2-1-2-1-2	
3200-3210	1-1-1 $\frac{1}{2}$ -2 $\frac{1}{2}$ -6/4-4-3-3-4	
3210-3220	3-3-2-3-2/4-4-5-5-4	
3220-3230	3-2-3-3-4/3-3-5-3-4	
3230-3240	3-3-5-4-3/5-4-4-5-5	
3240-3250	5-2-2-3-2/4-4-3-3-4	
3250-3260	3-3-3-3-2/3-2-2-3-3	Vis. 32 Wt. 9.5
3260-3270	2-3-2-2-3/4-3-4-4-3	
3270-3280	2-2-2-3-4/2-3-2-2-2	
3280-3290	3-2-2-2-3/1- $\frac{1}{2}$ -1-1- $\frac{1}{2}$	
3290-3300	$\frac{1}{2}$ -1- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ / $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -1	CFS $\frac{1}{2}$ Hr.
3300-3310	3-3-3-3-3/3-2-3-3-2	
3310-3320	3-3-3-3-2/3-2-3-3-3	
3320-3330	3-3-3-2-2/3-2-3-1 $\frac{1}{2}$ -1 $\frac{1}{2}$	
3330-3340	2-2-3-3-3/3-2-3-3-1	
3340-3350	1 $\frac{1}{2}$ -1 $\frac{1}{2}$ -1-1-1 $\frac{1}{2}$ /1-1 $\frac{1}{2}$ -1-1-1	
3350-3360	2-3-2- $\frac{1}{2}$ -2 $\frac{1}{2}$ /1-2-3-3-3	
3360-3370	2-3-2-2-2/3-2-3-3-3	
3370-3380	3-3-2-3-2/3-3-3-3-3	Vis. 35 Wt. 9.5
3380-3390	2-3-3-3-3/2-4-4-2-2	
3390-3400	2-2-2-2-2/3-3-3-3-3	

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HINKLE OIL COMPANY
 #1-A SPENCE
 NW NW NW
 SECTION 35-23S-18W
 PAWNEE COUNTY, KANSAS

DEPTH	ONE FOOT DRILLING TIME	REMARKS
3400-3410	3-2-2-2-1/1/2-1/2-1/2-2 1/2-3	
3410-3420	3-4-4-3-4/3-4-3-3-4	
3420-3430	4-3-3-3-4/3-4-3-3-4	
3430-3440	3-2-2-1-1/1/2-1-1-1 1/2-2	
3440-3450	2-4-3-3-4/3-3-4-3-3	
3450-3460	4-4-3-3-4/4-3-4-2-3	
3460-3470	2-2-2-2-3/4-3-4-4-3	
3470-3480	3-3-2-2-2/1 1/2-1-1 1/2-1 1/2-1	
3480-3490	1/2-1/2-1-1 1/2-2/2-2-2-2-2	
3490-3500	2-1-1/2-1-1/1-1 1/2-3-3-2	Vis. 36 Wt. 9.6
3500-3510	2-2-2-3-1/1-1-2-1-1	
3510-3520	3-3-3-3-1/1-1-2-1-2	
3520-3530	2-2-2-2-2/2-1-1-1-1	
3530-3540	1/2-1/2-1-1-2/3-4-2-1/2-1	
3540-3550	1 1/2-1-1-2-2/1-2-3-3-2	
3550-3560	2-3-3-2-4/3-4-4-5-4	
3560-3570	4-4-3-3-2/2-2-1-1-3	
3570-3580	3-2-3-2-2/2-4-2-2-2	
3580-3590	2-3-4-3-2/2-3-3-4-4	
3590-3600	4-3-5-6-6/6-5-5-5-6	
3600-3610	4-7-5-6-5/5-6-5-7-5	
3610-3620	5-2-3-5-2/3-2-3-3-2	
3620-3630	2-3-2-1-1/2/1 1/2-2-1-2-2	
3630-3640	2-1-2-1-2/1/2-1 1/2-2-1 1/2-1 1/2	
3640-3650	1/2-1/2-1-1-1/2-2-3-1-3	
3650-3660	1/2-1-1/2-1-2/2-2-1-2-3	
3660-3670	2-1-1-1-2/1 1/2-1/2-3-1-1	
3670-3680	3-2-1-1-1/2/1/2-1-1-1-2	
3680-3690	1/2-1/2-1-1-1/2-1/2-1-1 1/2-1/2	
3690-3700	1-1/2-1/2-2-2/1-2-1-2-2	
3700-3710	2-2-2-2-2/2-1-1-1-2	
3710-3720	1-1-1-1-1 1/2/1-1 1/2-1-1-1	
3720-3730	1/2-1/2-1 1/2-1 1/2-1/1-2 1/2-2 1/2-2-1	
3730-3740	1-1-1-1-2/2-2-3-4-3	
3740-3750	2-1-4-5-5/5-5-6-5-5	
3750-3760	3-5-5-4-5/2-3-2-3-3	
3760-3770	2-3-4-4-4/4-3-3-3-3	
3770-3780	2-2-2-3-5/5-7-6-7-10	
3780-3790	6-7-6-7-6/5-6-4-2-3	
3790-3800	4-3-4-3-3/3-4-4-4-3	

STATE COMMISSION

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COMMISSIONER

HINKLE OIL COMPANY
#1-A SPENCE
NW NW NW
SECTION 35-23S-18W
PAWNEE COUNTY, KANSAS

<u>DEPTH</u>	<u>ONE FOOT DRILLING TIME</u>	<u>REMARKS</u>
4200-4210	7-5-7-6-7/6-8-8-9-10	Vis. 53 Wt. 9.6
4210-4220	9-8-6-2-4/5-3-3-5-8	
4220-4230	7-5-3-5-3/2-4-6-5-6	
4230-4240	8-6-9-7-8/6-5-5-4-4	
4240-4250	5-6-6-7-5/7-4-6-6-6	
4250-4260	6-8-8-5-8/8-7-7-6-6	
4260-4270	6-6-4-3-1/1-1-3-4-4	
4270-4280	5-4-4-6-6/5-3-5-7-9	
4280-4290	11-11-11-7-10/10-10-6-3-2	
4290-4300	3-10-20-15-5/6-8-9-7-7	
4300-4310	6-6-7-8-7/5-6-5-6-6	
4310-4320	10-9-5-8-7/7-8-5-5-5	
4320-4330	5-4-6-7-6/8-9-9-10-6	
4330-4340	7-9-6-9-8/4-4-12-17-20	
4340-4350	18-13-6-8-7/9-9-14-11-3	
4350-4360	2-1-4-10-13/11-13-10-14-10	
4360-4370	5-2-2-3-6/9-12-8-7-7	
4370-4380	8-7-5-6-10/6-9-8-7-4	Vis. 54 Wt. 9.7
4380-4390	5-4-2-4-2/3-1½-2-3½-2	
4390-4400	2½-2-2-2-2/4-6- -5-7	
4400-4410	6-2-2-1-1/2-1-1-2-2	
4410-4420	1-1-1-1-1/2-1-1-1-1	<u>DST #3 @4410'</u>
4420-4430	1-1-1-2-1/1-1-1-2-2	CFS 1½ Hrs.
4430-4440	2-1-4-7-8/8-7-5- -5	
4440-4450	6-8-6-9-8/9-9-7-9-8	
4450-4460	8-8-11-10-7/7-10-7-8-9	
4460-4470	9-10-9-10-10/10-8-7-7-6	Vis. 55 Wt. 9.5
4470-4480	7-2-3-2-2/5-2-3-2-2	
4480-4490	2-4-4-7-8/7-9-8-6-6	
4490-4500	9-9-6-5-8/8-9-8-7-4	Vis. 56 CFS 2 Hrs.

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