

ORIGINAL

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 5140

Name: FRONTIER OIL COMPANY

Address 125 N. Market, Ste. 1720

City/State/Zip Wichita, KS 67202

Purchaser: N/A

Operator Contact Person: Jean Angle

Phone (316) 263-1201

Contractor: Name: RED TIGER DRILLING CO.

License: 5302

Wellsite Geologist: Dick Parker

Designate Type of Completion

New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If OWO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

5-2-90 5-11-90 5-12-90

Spud Date Date Reached TD Completion Date

API NO. 15- 167-22,903-00-00

County Russell

NE NE NE Sec. 33 Twp. 11S Rge. 15 East West

4950 Ft. North from Southeast Corner of Section

330 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

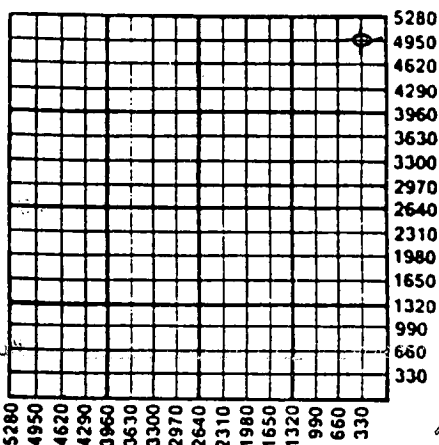
Lease Name Abbott "A" Well # 2

Field Name Eulert Extension

Producing Formation N/A

Elevation: Ground 1821 KB 1826

Total Depth 3320 PBDT N/A



STATE CORP. 5-24-1990
CONSERVATION DIVISION 24 1990
Wichita, Kansas

Amount of Surface Pipe Set and Cemented at 226' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Jean Angle

Title Agent Date 5-22-90

Subscribed and sworn to before me this 22nd day of May, 19 90.

Notary Public D. Ann Drennan

Date Commission Expires 10-94



K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
C Wireline Log Received
 Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

SIDE TWO

Operator Name FRONTIER OIL COMPANY Lease Name Abbott "A" Well # 2
 Sec. 33 Twp. 11S Rge. 15 East West
 County Russell

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Submit Copy.) DST #1 (3144-3210) 30-45-30-45. Rec. 10' SGCM w/few specks of O. IF 55-55, FF 66-66, ISIP 764, FSIP 511 DST #2 (3247-3288) 30-30-30-30. Rec. 5' M. IF & FF 50-50, ISIP & FSIP 277. cont'd.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">Formation Description</th> </tr> <tr> <td><input type="checkbox"/> Log</td> <td colspan="2"><input checked="" type="checkbox"/> Sample</td> </tr> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> <tr> <td>Anhydrite</td> <td>898</td> <td>(+928)</td> </tr> <tr> <td>Topeka</td> <td>2702</td> <td>(-876)</td> </tr> <tr> <td>Heebner</td> <td>2924</td> <td>(-1098)</td> </tr> <tr> <td>Toronto</td> <td>2944</td> <td>(-1118)</td> </tr> <tr> <td>Lansing</td> <td>2974</td> <td>(-1148)</td> </tr> <tr> <td>Base KS City</td> <td>3226</td> <td>(-1400)</td> </tr> <tr> <td>Eros. Arbuckle</td> <td>3272</td> <td>(-1446)</td> </tr> <tr> <td>Arbuckle</td> <td>3295</td> <td>(-1469)</td> </tr> </table>	Formation Description			<input type="checkbox"/> Log	<input checked="" type="checkbox"/> Sample		Name	Top	Bottom	Anhydrite	898	(+928)	Topeka	2702	(-876)	Heebner	2924	(-1098)	Toronto	2944	(-1118)	Lansing	2974	(-1148)	Base KS City	3226	(-1400)	Eros. Arbuckle	3272	(-1446)	Arbuckle	3295	(-1469)
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	20#	226	60-40POZ	135	2%gel, 3%cc
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
N/A							
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production		Size		Set At		Packer At	
N/A							
Producing Method		<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Estimated Production Per 24 Hours		Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

Disposition of Gas: N/A METHOD OF COMPLETION Production Interval
 Vented Sold Used on Lease Open Hole Perforation Dually Completed Commingled
 (If vented, submit ACO-18.) Other (Specify) _____

OPERATOR FRONTIER OIL COMPANY LEASE NAME Abbott "A" # 2 SEC. 33 TWP. 11S RGE. 15W

FILL IN WELL LOG AS REQUIRED:

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
DST #3 (3276-3300) 30-30-30-30. Rec. 5' M.IF & FF 33-33, ISIP 122, FSIP 111.				
DST #4 (3276-3305) 30-30-30-30. Rec. 10' M w/few spots of O. IF 44-44, FF 55-55, ISIP 522, ISIP 511.				
DST #5 (3302-3310) 30-30-30-30. Rec. 10' M. IF 44-44, FF 55-55, ISIP 832, FSIP 720.				
DST #6 (3310-3320) 60-30-60-30. Rec. 1350' SW. IF 39-423, FF 433-630, ISIP & FSIP 1056.				

RECEIVED
 STATE ENGINEER & GEOLOGIST DIVISION
 MAY 24 1990
 CONSERVATION DIVISION
 Topeka, Kansas

15-167-22903-00-00

Phone 3-483-2627, Russell, Kansas
Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812
Phone Ness City 913-798-3843

ORIGINAL

ALLIED CEMENTING CO., INC. N^o 10041

Home Office P. O. Box 31 Russell, Kansas 67665

New

Date	5-11-90	Sec.	33	Twp.	11s	Range	15w	Called Out	7:00PM	On Location	8:30PM	Job Start	9:15PM	Finish	12:00	
Lease	ABBOTT	Well No.	#A" 2	Location		Gorham 1E 9N 1E 2N		County	Russell	State		KANSAS				
Contractor	Red Tiger Drllg. Rig #5							Owner	Y2E 1S into							
Type Job	Rotary Plug							To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	7 7/8		T.D.	3320'			Charge To	FRONTIER OIL COMPANY								
Csg.	8 5/8 Surface		Depth	226'			Street	1437 N Franklin								
Tbg. Size			Depth				City	Russell		State Kan 67665						
Drill Pipe	4 1/2 X-H		Depth	3272'			The above was done to satisfaction and supervision of owner agent or contractor.									
Tool			Depth				Purchase Order No.	x <i>[Signature]</i>								
Cement Left in Csg.			Shoe Joint				CEMENT									
Press Max.			Minimum	✓			Amount Ordered	175 SK 6 3/4 6 7/8 gel ^{Y4 #} FLO-SK PER SK								
Meas Line			Displace				Consisting of									
Perf.							Common	105	500	525.00						

EQUIPMENT

Pumptrk	No. #177	Cementer	<i>[Signature]</i>
		Helper	<i>[Signature]</i>
Pumptrk	No.	Cementer	
		Helper	
Bulktrk	#155	Driver	<i>[Signature]</i>
Bulktrk		Driver	

Handling	.90 PER SK	157.50
Mileage	.03 PER Ton mile	99.75
Sub Total		1006.65
Total		

DEPTH of Job	Reference:	Pump Truck Chrg.	360.00
		1 ⁰⁰ PER mile 19m	19.00
		1-8 5/8 Wiper Plug	20.00
		Sub Total	399.00
		Tax	
		Total	

Remarks: 25 SK @ 3272'
25 SK @ 920'
100 SK @ 500'
10 SK @ 40'
15 SK @ RatHoke

[Signature]

State Plugger: DENNIS HAMEL

STATE CORP
MAY 24 1990
CONSERVATION DIVISION
Wichita, Kansas

15-167-22903-00-00

Phone 913-483-2627, Russell, Kansas
Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812
Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. N^o 10036

Home Office P. O. Box 31 Russell, Kansas 67665

New

Date	5-2-90	Sec.	33	Twp.	11 S	Range	15 W	Called Out	1:15 PM	On Location	4:00 PM	Job Start	6:15 PM	Finish	6:45 PM
Lease	ABBOTT "A"			Well No.	# 2		Location	Gorham 1E 9N 1E 2N			County	Russell	State	Kansas	
Contractor	Red Tiger Drllg. Rig # 5							Owner	1/2 E 1 S into						
Type Job	Surface							To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	12 1/4		T.D.	231'		Charge To	FRONTIER OIL COMPANY								
Csg.	8 5/8		Depth	226'		Street	1437 N. Franklin								
Tbg. Size			Depth			City	Russell			State Kansas					
Drill Pipe			Depth			The above was done to satisfaction and supervision of owner agent or contractor.									
Tool			Depth			Purchase Order No.									
Cement Left in Csg.	15'		Shoe Joint			X Judy Roubly									
Press Max.			Minimum			CEMENT									
Meas Line	✓		Displace	✓ 13 3/4 BBL											
Perf.															

EQUIPMENT

Pumptrk #177	No.	Cementor	Phong
		Helper	
Pumptrk #213	No.	Cementor	Mark
		Helper	
Bulktrk		Driver	
		Driver	

DEPTH of Job		
Reference:	Pump TRUCK Chrg.	360.00
	1.00 PER MILE	19.00
	WIPER PLUG	40.00
	Sub Total	
	Tax	
	Total	419.00

Remarks: Cement Circulated

STATE OF KANSAS

May 24 1990

CONSERVATION DIVISION
Wichita, Kansas

Shank

Amount Ordered	135 SK	60/40	2% gel	3% CC
Consisting of				
Common	80 SKs @ 5.00			400.00
Poz. Mix	55 SKs @ 2.25			123.75
Gel.	2 SKs N/C			N/C
Chloride	4 SKs @ 20.00			80.00
Quickset				
Handling	.90 PER SK			121.50
Mileage	.03 PER TON MILE			76.95
Sub Total				
Total				802.20
Floating Equipment				

RECEIVED

STATE OF KANSAS

May 24 1990

CONSERVATION DIVISION
Wichita, Kansas

15-167-22903-00-00

GEOLOGICAL REPORT

K C C

FRONTIER OIL COMPANY

NO. 2 ABBOTT "A"

NE NE NE Sec. 33-11S-15W

RUSSELL COUNTY, KANSAS

DATE COMMENCED: May 2, 1990

DATE OF RTD: May 11, 1990

GEOLOGIST

RICHARD D. PARKER

RECEIVED
STATE COMMODITIES COMMISSION
5-24-1990
MAY 24 1990
CONSERVATION DIVISION
Wichita, Kansas

FRONTIER OIL COMPANY
125 N. Market, Ste. 1720
Wichita, KS 67202

Re: **Frontier Oil Company**
No. 2 Abbott "A"
NE NE NE Sec. 33-11S-15W
Russell County, Kansas

Dear Sir:

The following is a Geological Report, with a Time Log attached, on the above captioned well.

Drilling was supervised from 2500' to 3320', rotary total depth. Samples were examined from 2500' to rotary total depth.

All formation tops, zones of porosity and staining are based on rotary bushing measurements. Any corrections in measurements during the drilling of this well have been incorporated into this report.

ELEVATION	(American Elevations)	1823 DF	- 1826 KB
Anhydrite		898	+928
Topeka		2702	-876
Heebner		2924	-1098
Toronto		2944	-1118
Lansing-Kansas City		2974	-1148
Base of Kansas City		3226	-1400
Erosional Arbuckle		3272	-1446
Arbuckle		3295	-1469
RTD		3320	-1494

Structurally on top of the Topeka, the No. 2 Abbott "A" ran 6' high to the No. 1 Abbott "A". On top of the Lansing-Kansas City the No. 2 Abbott "A" ran 8' high to the No. 1 Abbott "A". On top of the Arbuckle the No. 2 Abbott "A" ran 1' high to the No. 1 Abbott "A".

ZONES OF INTEREST

TOPEKA (Top 2702)

2702 to 2708

Tan fine crystalline to sucrosic lime with spotted dark stain.

2880 to 2904

Tan to white slightly vuggy to oolitic lime with spotted dark stain.

TORONTO (Top 2944)

2944 to 2948

White fine crystalline to chalky lime with a trace of oil stain.

LANSING-KANSAS CITY (Top 2974)

2974 to 2977

White chalky to slightly fossiliferous lime with traces of oil stain.

3004 to 3010

White to tan oolitic lime with spotted oil stain.

3020 to 3026

Tan oolitic to oolitic lime with spotted oil stain.

3049 to 3053

Tan slightly oolitic lime with a trace of oil stain.

3062 to 3068

Tan fossiliferous lime with fair fossiliferous porosity, fair odor traces of free oil.

3074 to 3083

White fine crystalline lime and abundant fresh sharp chert, no odor, no show of oil.

3112 to 3118

White chalky lime with no show of oil.

3148 to 3154

White chalky to dense lime with no show of oil (Included in DST #1)

3164 to 3168

Tan fine crystalline to fossiliferous lime with fair fossiliferous porosity, fair show of free oil and a good odor. (Included in DST #1)

3186 to 3190

Tan fine crystalline to dense lime with a fair odor, traces of free oil.

DRILL STEM TEST NO. 1(TRILOBITE TESTING)

3144 to 3210

30-45-30-45. 1st open weak blow for 15 min. 2nd open no blow. Rec. 10' slightly GCM w/a few spots of oil. IF 55-55, FF 66-66, ISIP 764, FSIP 511.

EROSIONAL ARBUCKLE (Top 3272)

3272 to 3277

White fine crystalline to dense slightly fossiliferous lime w/scattered show of free oil, traces of spotted stain and a faint odor. (Included in DST #2)

3277 to 3283

White medium crystalline to dense dolomite with a faint odor, scattered show of free oil, spotted stain. (Included in DST #2)

3283 to 3288

Red & grey to light green shale, tan and yellow chert, dense white dolomite scattered dense fine grained sand clusters, with traces of free oil in dense dolomite, no odor.

DRILL STEM TEST NO. 2(TRILOBITE TESTING)

3247 to 3288

30-30-30-30. 1st open weak blow for 20 min. 2nd open no blow. Rec. 5' M. IF 55-55, FF 55-55, ISIP 277, FSIP 277.

3288 to 3295

Same as above description

ARBUCKLE (Top 3295)

3295 to 3300

Abundant fresh white sharp chert and some medium crystalline dolomite with faint odor. Fair show of oil spotted stain.

DRILL STEM TEST NO. 3(TRILOBITE TESTING)

3276 to 3300

30-30-30-30. 1st open weak blow for 15 min. 2nd open no blow. Rec. 5' M. IF 33-33, FF 33-33, ISIP 122, FSIP 111.

3300 to 3305

White medium crystalline dolomite with a good show of free oil, good odor, good saturated stain fair intercrystalline porosity.

DRILL STEM TEST NO. 4

3276 to 3305

(TRILOBITE TESTING)

30-30-30-30. 1st open weak blow for 10 min. 2nd open no blow. Rec. 10' M w/oil spots. IF 44-44, FF 55-55, ISIP 522, FSIP 511.

3305 to 3310

White medium crystalline dolomite w/fair show of free oil, good odor.

DRILL STEM TEST NO. 5

3302 to 3310

(TRILOBITE TESTING)

30-30-30-30. 1st open weak blow for 15 min. 2nd open no blow. Rec. 10' M. IF 44-44, FF 55-55, ISIP 832, FSIP 720.

3310 to 3315

White medium crystalline dense dolomite with no odor. Traces of free oil. (Included in DST #6)

3315 to 3320

White to tan dense sharp fresh oolitic chert with no show of oil and no odor.

DRILL STEM TEST NO. 6

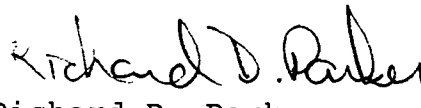
3310 to 3320

(TRILOBITE TESTING)

60-30-30-30. 1st open strong blow off bottom of bucket 5 min. 2nd open strong blow. Rec. 1350' salt water. IF 39-423, FF 433-630, ISIP 1056, FSIP 1056.

Due to low structural position and negative drill stem test results the No. 2 Abbott "A" was plugged an abandoned, a dry hole.

Sincerely,



Richard D. Parker CST

DRILLING INFORMATION ON THE NO. 2 ABBOTT "A"

Contractor : Red Tiger Drilling Co. Drillers : Burlison
 Oden
 Tool Pusher : Walter Oden, Jr. Arnold
 Spud Date : May 2, 1990 Date of RTD: May 11, 1990
 Surface Pipe: 8 5/8" @ 276' / 135sx Casing : None

TOTAL FOOTAGE DRILLED PER DAY

Under Surface At 12:45 AM on May 3, 1990

531	Feet	At	7:00 AM	on	05-03-90
1650	"	"	" "	"	05-04-90
2189	"	"	" "	"	05-05-90
2715	"	"	" "	"	05-06-90
3000	"	"	" "	"	05-07-90
3210	"	"	" "	"	05-08-90
3278	"	"	" "	"	05-09-90
3300	"	"	" "	"	05-10-90
3320	"	"	9:47 AM	"	05-11-90

BIT RECORD

<u>BITS</u>	<u>TYPE</u>	<u>FOOTAGE</u>
No. 1	CP-EH 527CB (New)	231 to 3320

MUD RECORD

MUD COMPANY: Mud-Co

MUD TYPE: Starch

Surface: 25sx gel, 1sk lime
 2576: 80sx salt gel, 40sx starch, 20sx hulls, 2sx soda ash, 2sx preservative
 3154: 30sx salt gel
 3228: 10sx salt gel, 7sx starch, 4sx hulls
 3298: 15sx salt gel, 5sx starch
 3310: 20sx salt gel, 4sx hulls, 20sx salt gel, 5sx starch, 1sk hulls

DRILLERS TIME LOG

FRONTIER OIL COMPANY
No. 2 Abbott "A"NE NE NE
Sec. 33-11S-15W
Russell CountyElev.: 1821 GR
1826 KB

DEPTH	MINUTES	REMARKS
	1 Foot Drilling Time	
2500 to 2510	1-2-2-1-2-1-2-1-1-2	
2520	1-1-1-2-1-1-3-3-5-4	
2530	3-3-3-4-4-4-4-3-2-3	
2540	3-1-2-2-2-2-2-3-4-2	
2550	3-3-4-5-5-4-4-3-2-2	
2560	4-4-4-4-3-3-2-3-3-3	
2570	2-2-3-3-4-3-4-4-4-4	
2580	3-3-3-4-3-4-3-2-2-1	
2590	2-1-2-2-1-2-2-2-1-4	
2600	4-4-4-3-3-3-2-2-4-3	
2600 to 2610	3-3-2-3-3-3-3-3-3-2	
2620	2-3-3-3-3-2-2-3-2-2	
2630	4-3-3-3-1-1-1-3-3-3	
2640	4-3-2-3-3-2-3-3-2-3	
2650	2-3-3-2-3-2-3-2-2-4	
2660	2-3-3-4-4-4-4-3-2-5	
2670	5-4-4-4-5-5-3-3-3-3	
2680	2-2-3-5-5-5-5-4-3-5	
2690	4-5-4-5-4-3-4-5-5-4	
2700	5-4-5-5-5-5-4-2-2-3	
2700 to 2710	3-3-4-3-4-3-3-2-2-3	
2720	4-4-3-5-5-5-5-5-4-3	
2730	3-4-3-4-3-3-3-4-3-3	
2740	3-4-3-3-4-5-5-5-4-5	
2750	3-3-3-3-3-3-3-3-4-4	
2760	4-4-4-3-4-5-5-7-7-6	
2770	7-8-7-6-5-5-5-5-5-5	
2780	5-4-5-4-4-5-4-5-5-4	
2790	6-4-5-4-5-5-3-3-5-6	
2800	5-2-3-4-5-6-3-3-3-2	
2800 to 2810	4-3-5-5-5-5-5-5-3-5	
2820	4-5-5-5-5-5-5-5-4-6	
2830	6-6-6-7-7-7-6-6-5-5	
2840	6-5-6-6-5-4-3-3-5-6	
2850	7-6-6-6-6-6-6-4-3-3	
2860	6-8-6-5-6-5-7-6-6-6	
2870	5-5-4-4-6-6-6-6-3-3	
2880	6-4-4-5-5-5-4-5-1-2	
2890	2-3-3-4-4-5-4-4-4-5	
2900	3-3-2-3-4-4-4-2-3-4	

2900 to	2910	3-4-4-4-5-6-5-5-5-5	
	2920	6-5-4-5-4-5-5-5-5-4	
	2930	6-6-6-6-4-4-3-5-9-9	
	2940	7-5-5-6-6-6-7-6-6-5	
	2950	5-5-4-4-5-6-7-8-8-7	
	2960	8-7-5-5-8-9-7-7-6-4	
	2970	5-5-5-4-4-3-3-4-3-3	
	2980	3-3-3-3-3-5-4-7-6-6	
	2990	6-6-6-6-4-6-4-6-5-7	
	3000	6-6-8-7-10-5-6-6-4-6	
3000 to	3010	5-5-5-10-5-3-4-4-6-5	
	3020	5-6-6-6-6-5-4-3-2-4	
	3030	4-5-5-6-5-6-6-7-5-7	
	3040	7-6-7-7-7-6-6-7-5-6	
	3050	5-6-5-4-6-6-4-4-5-3	
	3060	2-3-5-5-5-7-7-6-8-7	
	3070	7-6-5-5-6-5-5-7-8-6	
	3080	7-9-7-5-3-3-5-5-4-4	
	3090	4-3-5-5-6-6-5-6-5-7	
	3100	7-8-7-8-8-8-7-7-8-9	
3100 to	3110	7-7-8-7-7-7-7-6-4-7	
	3120	7-4-5-6-5-6-7-8-7-7	
	3130	6-7-7-7-7-7-7-7-9	
	3140	7-7-7-5-7-6-7-8-9-6	DST #1 (3144-3210)
	3150	7-6-10-7-8-9-6-5-4-4	
	3160	6-6-4-8-8-8-8-8-8-7	
	3170	8-6-7-7-5-3-4-6-7-7	
	3180	8-7-8-9-9-8-9-9-4-8	
	3190	10-9-8-11-9-10-8-7-8-4	
	3200	6-8-9-8-8-9-8-9-9-8	
3200 to	3210	9-9-9-8-11-8-6-10-8-8	
	3220	3-7-7-6-6-8-8-6-8-7	
	3230	11-8-10-9-9-9-8-9-8-9	
	3240	8-8-6-6-5-5-6-4-7-8	DST #2 (3247-3288)
	3250	10-6-10-10-10-10-7-10-10-5	
	3260	6-7-5-8-7-5-5-4-4-5	
	3270	5-5-5-6-6-8-5-8-9-10	DST #3 (3276-3300)
	3280	6-5-8-9-9-9-11-8-8-8	DST #4 (3276-3305)
	3290	9-8-9-5-6-4-5-8-5-10	
	3300	7-6-7-4-7-4-6-6-8-7	
3300 to	3310	3-4-4-6-8-6-7-7-10-9	DST #5 (3302-3310)
	3320	8-6-8-6-6-5-4-5-5-6	DST #6 (3310-3320)
			RTD 3320'