

API No.: 45-105-20241-00-03

VDMR Well Rep. No.: W-4647

Div. Gas & Oil File No.: LE-35

Operator: ROBERT F. SPEAR (FORMERLY TAMIK OIL)

Farm: LOGAN SNODGRASS HEIRS

County: LEE

Co. Well No.: 101

Quadrangle: COLEMAN GAP - 7-1/2'

Location (UTM): N 4,055,700; E 286,350

UTM Zone: 17

Field: ROSE HILL

Province: VALLEY AND RIDGE

Elev. (specify): 1500.0' GR TD: 2135

Formation at TD: LOWVILLE

Initial Gas Flow: 1000,000 CU. FT. ESTAMATED

Age: ORDOVICIAN

Date compl. or abandoned: DECEMBER 11, 1974

Result: WELL CAPPED

Gas Shows:

Gas Pays:

Main Production: 2101'

Producing Formation:

Final Gas Flow

Age:

Treatment:

Initial Oil Production:

Final Production:

Oil Shows:

Water: FW: at:
SW: at:

Coal:

Plat: X

Plotted: X

Completion Report: X

*Correction
Coleman Gap*



Drillers Log: X

Geologic Log:

Samples: X

Interval Sheet: X

Sample Interval: 0' TO 2135'

Geophysical Logs

S.P.

Res

Gamma: X

Neutron:

Density: X Sonic

Other: TEMPERATURE

Stratigraphic Data Source:

Formation

Top

Datum (Subsea)

Thickness

ON CE.

Remarks: ATTEMPTED TO ACIDIZE GAS PAY 0 DEMBER 16, 1974. PULLED TUBING APART
 SETTING PACKER; LOST 29 JOINTS IN THE HOLE. HOLE WAS CAPPED.
 TEMPORARILY COMPLETED. WILL ATTEMPT TO FISH TUBING AT LATER DATE.

References:

Release to Open File: Completion: MARCH 11, 1975
 Samples: YES

(Note: UTM measurements in meters, all others in feet)

COLEMAN GAP
1-31
GAS WELL
SAFETY REPORT

API No. 45-105-20241-00-03 VDMR Well Rep. No. W-4647
DMQ File No. LE-35

Operator ROBERT F. SPEAR (FORMERLY TAMIK OIL)

Farm LOGAN SNODGRASS HEIRS

Co. Well No. 101

County LEE Quadrangle COLEMAN GAP - 7 1/2'

Location (UTM) N4,055,700 E 286,350 UTM Zone 17

(Lat. and Long.) _____

Field ROSE HILL Province VALLEY AND RIDGE

Elev. (specify) 1500.0' GR TD 2135' Form. at TD LOWVILLE

INITIAL FLOW - 100,000 CU. FT. ESTIMATED Age ORDOVICIAN

Date compl. or abandoned DECEMBER 11, 1974

Result WELL CAPPED

Gas Shows _____

Gas Pays _____

Main Production 2101' Prod. Form. _____

Age _____

Treatment: _____

Initial Production _____

FINAL FLOW ---

Oil shows _____

Water FW _____ at _____ at _____ at _____

SW _____ at _____ at _____ at _____

Coal _____

Plat X Plotted X Completion Report X

Drillers Log X Geologic Log _____

Samples X Interval Sheet X

Sample Interval 0' TO 2135'

Remarks _____

Geophysical Logs S.P. _____ Res _____ Gamma X Neutron _____

Density X Sonic _____ Other TEMPERATURE;

Stratigraphic Data Source _____

<u>Formation</u>	<u>Top</u>	<u>Datum (Subsea)</u>	<u>Thickness</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Remarks ATTEMPTED TO ACIDIZE GAS PAY ON DECEMBER 16, 1974.
PULLED TUBING APART SETTING PACKER; LOST 29 JOINTS IN
THE HOLE. HOLE WAS CAPPED. TEMPORARILY COMPLETED. WILL
ATTEMPT TO FISH TUBING AT LATER DATE.

References _____

Released to Open File: Completion MARCH 11, 1975
Samples YES

(Note: UTM measurements in meters, all others in feet)

OIL AND GAS WELL SUMMARY REPORT

API No.: 45-105-20241-00-03

VDMR Well Rep. No.: W-4647

Div. Gas & Oil File No.: LE-35

Operator: ROBERT F. SPEAR (FORMERLY TAMIK OIL)

Farm: LOGAN SNODGRASS HEIRS

County: LEE

Co. Well No.: 101

Quadrangle: COLEMAN GAP - 7-1/2'

Location (UTM): N 4,055,700; E 286,350 UTM Zone: 17

Field: ROSE HILL Province: VALLEY AND RIDGE

Elev. (specify): 1500.0' GR TD: 2135' Formation at TD: LOWVILLE

Initial Gas Flow: 100,000 CU. FT. ESTIMATED Age: ORDOVICIAN

Date compl. or abandoned: DECEMBER 11, 1974

Result: WELL CAPPED

Gas Shows

Gas Pays

Main Production: 2101'

Producing Formation:

Final Gas Flow

Age:

Treatment:

Initial Oil Production:

Final Production:

Oil Shows

Water	FW	at	at	at
	SW:	at:	at	at

Coal

Plat: X

Plotted: X

Completion Report: X

Drillers Log: X

Geologic Log

Samples: X

Interval Sheet: X

Sample Interval: 0' TO 2135'

Geophysical Logs

S.P.

Res

Gamma: X

Neutron

Density: X Sonic

Other: TEMPERATURE

Stratigraphic Data Source:

<u>Formation</u>	<u>Top</u>	<u>Datum (Subsea)</u>	<u>Thickness</u>
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Remarks: ATTEMPTED TO ACIDIZE GAS PAY ON DECEMBER 16, 1974. PULLED TUBING APART SETTING PACKER; LOST 29 JOINTS IN THE HOLE. HOLE WAS CAPPED. TEMPORARILY COMPLETED. WILL ATTEMPT TO FISH TUBING AT LATER DATE.

References:

Released to Open File: Completion: MARCH 11, 1975
Samples: YES

(Note: UTM measurements in meters, all others in feet)

OIL AND GAS WELL
SUMMARY REPORT

API No. 45-105-20241-00-03 VDMR Well Rep. No. W-4647
DMQ File No. LE-35

Operator ROBERT F. SPEAR (FORMERLY TAMIK OIL)
Farm LOGAN SNODGRASS HEIRS
Co. Well No. 101

County LEE ⁷⁰⁰ Quadrangle COLEMAN GAP - 7-1/2'
Location (UTM) N 4,055,650; E 286,490 ³⁵⁰ UTM Zone 17
(Lat. and Long.) _____

Field _____ Province VALLEY AND RIDGE

Elev. (specify) 1500.0' GR. TD 2135' Form. at TD LOWVILLE
INITIAL FLOW - 100,000 CU. FT. ESTIMATED Age ORDOVICIAN

Date compl. or abandoned DECEMBER 11, 1974

Result WELL CAPPED

Gas Shows _____
Gas Pays _____

Main Production 2101' Prod. Form. _____
Age _____

Treatment: _____

Initial Production _____
FINAL FLOW - _____

Oil shows 1700'

Water FW _____ at _____ at _____ at _____
SW _____ at _____ at _____ at _____

Coal _____

Plat X Plotted X Completion Report X

Drillers Log X Geologic Log _____

Samples X Interval Sheet X

Sample Interval 0' to 2135'

Remarks _____

Geophysical Logs S.P. _____ Res _____ Gamma X Neutron _____
Density X Sonic _____ Other TEMPERATURE;

(To be filled in by Division of Mines)

COMMONWEALTH OF VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY

(To be filled in by Division of Mines)

LEE County ROSE HILL District COLEMAN GAP Map LE-35 File

DIVISION OF MINES BIG STONE GAP, VIRGINIA

Well No. 101 Permit No. 241 Office No. Location Plat

DEEPENED OIL AND GAS WELL COMPLETION REPORT ABANDONMENT

(This report and a copy of electrical log, if made, must be submitted to the Division of Mines within 30 days after abandonment or completion of well, as required by Section 45-113, Code of Virginia, 1950.)

Company Robert F. Spear (formerly Tamik Oil) Address Box 6 Ewing, Virginia 24248 Farm Logan Snodgrass Heirs Acres 27.5 County Lee District Rose Hill Well No. (Company) 101 Elevation (ground surface) 1500 ft.

Location: (Give direction and distance in feet or tenths of a mile from two (2) location reference points or map coordinates shown on location plat or map previously filed with the Division of Mines or shown on quadrangle topographic map of area.)

75 feet South of Latitude 36° 37' 30" and 4186 feet West of Longitude 83° 22' 30"

Surface of tract is owned in fee simple by Logan Snodgrass Heirs Address Ewing, Virginia 24248 Mineral rights are owned by Logan Snodgrass Heirs Address Ewing, Virginia 24248 Location made by Robert F. Spear Drilling commenced October 14, 1974 Drilling contractor Goe Drilling Drilling completed December 11, 1974 Address

Well completed as gas well on WELL CAPPED oil Well abandoned at feet on Reason Well plugged on 19 Affidavit filed 19 Total depth 2,135 feet. Steel line measurement feet. Commenced producing on 19

Oil Well Initial production, oil: 1st 24 hours bbls.; 2nd 24 hours bbls. After shot on from feet to feet with lbs. qts. After shot on from feet to feet with lbs. qts. 1st 24 hours bbls.; 2nd 24 hours bbls. Settled production bbls. per day after producing weeks

Gravity and grade of oil Oil pays at (1) feet to feet. Oil shows at (1) feet to feet. (2) feet to feet. (2) feet to feet. (3) feet to feet. (3) feet to feet. (4) feet to feet. (4) feet to feet. Main production at feet to feet. (5) feet to feet.

Gas Well Gaged /10ths. Water in inch. Initial open flow, gas: /10ths. Mercury in inch. Volume 100,000 cu. ft. After shot on from feet to feet with lbs. qts. After shot on from feet to feet with lbs. qts. 1st 24 hours cu. ft. 2nd 24 hours cu. ft.

Well No. 1File No. LE-35Permit No. 241

LOG

Furnished by _____ Date _____

Compiled by _____ Date _____

SAMPLE No.	FORMATION	COLOR	HARD OR SOFT	TOP (feet)	BOTTOM (feet)	THICKNESS (feet)	REMARKS OIL, GAS, WATER DEPTHS SHUT DOWN FISHING, ETC.
SILURIAN	CLINTON		SOFT	0	245	245	
	CLINCH		HARD				
	(POOR VALLEY RIDGE MEMBER)		HARD	245	372	127	
	(HAGAN SH. MEMBER)		MED.	372	450	78	
	SEQUATCHIE		MED.	450	714	264	
	REEDSVILLE		MED.	714	1075	361	
ORDOVICIAN	TRENTON		HARD	1075	1668	593	
	EGGLESTON		MED.	1668	1824	156	OIL SHOW 1700'
	MOCCASIN (HARDY CREEK MEMBER)		MED.	1824	1944	120	
	(BEN HUR MEMBER)		MED	1944	2098	154	
	LOWVILLE		HARD	2098	2135 T.D.	37	GAS 2101' EST. 100 MCF

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THIS FORM MUST BE SIGNED BY AUTHORIZED PERSON:

(To be filled in by
Division of Mines)

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF LABOR AND INDUSTRY

(To be filled in by
Division of Mines)

DIVISION OF MINES

BIG STONE GAP, VIRGINIA

DEEPENED
OIL AND GAS WELL COMPLETION REPORT
ABANDONMENT

Well No. 101

Permit No. 241

Office No. _____

Location Plat _____

LEE
County

ROSE HILL
District

COLEMAN GAP
Map

LE-35
File

(This report and a copy of electrical log, if made, must
be submitted to the Division of Mines within 30 days after
abandonment or completion of well, as required by Section
45-113, Code of Virginia, 1950.)

Company Robert F. Spear (formerly Tamik Oil) Address Box 6
Ewing, Virginia 24248
Farm Logan Snodgrass Heirs Acres 27.5
County Lee District Rose Hill
Well No. (Company) 101 Elevation (ground surface) 1500' ft.

Location: (Give direction and distance in feet or tenths of a mile from two (2) location reference points or map coordinates shown on location plat or map previously filed with the Division of Mines or shown on quadrangle topographic map of area.)

75 feet South of Latitude 36°37'30" and
4.186 feet West of Longitude 83°22'30"

Surface of tract is owned in fee simple by Logan Snodgrass Heirs
Address Ewing, Virginia 24248
Mineral rights are owned by Logan Snodgrass Heirs
Address Ewing, Virginia 24248
Location made by Robert F. Spear
Drilling commenced October 14, 1974 Drilling contractor Boe Drilling
Drilling completed December 11, 1974 Address _____

Well completed as ^{gas}oil well on WELL CAPPED
Well abandoned at _____ feet on _____: Reason _____
Well plugged on _____, 19____ Affidavit filed _____, 19____
Total depth 2,135 feet. Steel line measurement _____ feet.
Commenced producing on _____, 19____

Oil Well
Initial production, oil: 1st 24 hours _____ bbls.; 2nd 24 hours _____ bbls.
After shot on _____ from _____ feet to _____ feet with _____ lbs. qts.
After shot on _____ from _____ feet to _____ feet with _____ lbs. qts.
1st 24 hours _____ bbls.; 2nd 24 hours _____ bbls. days weeks
Settled production _____ bbls. per day after producing _____ weeks
Gravity and grade of oil _____
Oil pays at (1) _____ feet to _____ feet. Oil shows at (1) _____ feet to _____ feet.
(2) _____ feet to _____ feet. (2) _____ feet to _____ feet.
(3) _____ feet to _____ feet. (3) _____ feet to _____ feet.
(4) _____ feet to _____ feet. (4) _____ feet to _____ feet.
Main production at _____ feet to _____ feet. (5) _____ feet to _____ feet.

Gas Well
Gaged _____/10ths. Water in _____ inch.
Initial open flow, gas: _____/10ths. Mercury in _____ inch.
Volume 100,000 cu. ft.
After shot on _____ from _____ feet to _____ feet with _____ lbs. qts.
After shot on _____ from _____ feet to _____ feet with _____ lbs. qts.
1st 24 hours _____ cu. ft. 2nd 24 hours _____ cu. ft.

VIRGINIA DIVISION OF
DEPARTMENT OF
DEC 9 1974
MINERAL RESOURCES

Well 101

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF LABOR AND INDUSTRY
DIVISION OF MINES AND QUARRIES
BIG STONE GAP, VIRGINIA 24219
PHONE 703-523-0335

APPLICATION FOR PERMIT TO (DRILL) ~~(REDRILL)~~ ~~(DEEPEN)~~ OIL OR GAS WELL

(Required by Section 45.1-115, Code of Virginia, 1950, 1954 and the 1966 Cumulative Supplement. To be accompanied by Permit fee of twenty-five dollars and bond and surety therefor, as specified by Section cited. To be submitted in duplicate, one copy to be returned to applicant after action by Division of Mines and Quarries.

TO: Division of Mines and Quarries
Drawer V
Big Stone Gap, Virginia 24219

Lee County, Virginia
Place

July 23, 1974
Date

Gentlemen:

The undersigned hereby makes application for a Permit to drill, ~~XXXXXX~~ ~~XXXXXX~~ (strike out two) a well for oil or gas on the Snodgrass Heirs Farm, comprising 27.5 acres, in the Rose Hill District of Lee County, Virginia, having the fee title thereto, or as the case may be, under grant or lease dated May 10, 1974 made by Logan Snodgrass Heirs to Robert F. Spear (Tamik Oil Company) and recorded on the 10th day of July, 1974 in the office of the County Clerk for the said County in Book 245 page 405.

The proposed location of the well is shown on a location plat or map submitted to the Division of Mines and Quarries, by the undersigned, together with Notice of Intention to Drill, Redrill or Deepen a Well for Oil or Gas on the 23rd day of July 1974.

The proposed well will be known as Well No. 1-A of Tamik Oil Company (company, etc.) It is proposed to drill this well to a depth of about 2200 feet.

The proposed location is about 290 feet distant from the nearest property or lease line; about feet distant from the nearest mining opening, or quarry (strike out words not applicable) and/or about 390 feet distant from the nearest ~~drilling~~, abandoned, ~~producing~~ or ~~applied for~~ (strike out words not applicable) oil ~~xxxx~~ (strike out words not applicable) well.

There is enclosed herewith a certified check or U.S. Postal Money Order, in the amount of twenty-five (\$25.), payable to the Treasurer of Virginia, covering fee for a Permit to Drill a Well for Oil or Gas, as required by Section 45.1-115, Code of Virginia, 1950, 1954 and the 1966 Cumulative Supplement. Bond and Surety therefor to insure compliance with the provisions of Chapter 8, Title 45, Code of Virginia, 1950 and the 1966 Supplement, for this well, in the amount of \$ 1,000 is submitted herewith of (give status of) Surety Bond

Correspondence regarding this well should be addressed to Tamik Oil Company, c/o R.F. Spear, Box 6, Ewing, Virginia 24248

Very truly yours,

Signature of officer or certifying party:

Robert F. Spear

TAMIK OIL COMPANY
Drilling Company or Operator

Operator

Title

Box 6

Street

Ewing,

City or Town

Virginia 24248

State

Space below this line is for the use of the Board only.
ACTION OF DIVISION OF MINES AND QUARRIES

Received on 7-29-1974.

Approved and Permit (no. 187) granted on

8-12-1974

Denied

Reasons for denial

DIVISION OF MINES AND QUARRIES

By *W. H. Kelly, Jr.*
Title Oil & Gas Inspector

File No. LE-35

Well No. 101

Permit No. 187

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF LABOR AND INDUSTRY
DIVISION OF MINES AND QUARRIES
BIG STONE GAP, VIRGINIA 24219

NOTICE OF INTENTION TO (DRILL) ~~REDRILL OR DEEPEN~~ OIL OR GAS WELL

(One copy of this report and three identical copies of a plat or map, on a scale not smaller than 400 feet to the inch, and showing information required by Section 45.1-114, Code of Virginia, 1950, 1954 and the 1966 Cumulative Supplement, must be submitted to the Division of Mines and Quarries, and copies sent by registered mail to all persons defined in above law, prior to obtaining a permit to drill.)

TO: Division of Mines and Quarries
Drawer V
Big Stone Gap, Virginia 24219

Lee County, Virginia
Place
July 23, 19 74
Date

Gentlemen:

The undersigned proposes to begin as soon as a permit therefor is obtained from the Division of Mines and Quarries, to drill, ~~redrill or deepen~~ (strike out two) a well for oil or gas on the Logan Snodgrass Heirs Farm, comprising 27.5 acres, in the Rose Hill District of Lee County, Virginia, having the fee title thereto, or as the case may be, under grant or lease dated May 10, 1974, made by Logan Snodgrass Heirs to R. F. Spear (Tamik Oil Company) and recorded on the 10th day of July, 19 74 in the office of the County Clerk for said County in Book 245 Page 405. The proposed location of the well, as shown on the attached plat or map, is about 75 (feet/miles) South of Latitude 36° 37' 30" and about 4186 (feet/miles) West of Longitude 83° 22' 30".

It is proposed to drill this well to a depth of about 2200 feet. Samples or cutting therefrom will or will not be available for examination by a member of the staff of the Virginia Geological Survey. Cuttings will or will not be furnished the Survey.

A plat or map, in triplicate, on a scale not smaller than 400 feet to the inch, showing the proposed location of the well and other information, required in Section 45.1-114, Code of Virginia, 1950, 1954 and the 1966 Cumulative Supplement is attached hereto. Copies of the plat and notice of intention to drill, redrill or deepen the aforementioned well have been sent to all interested persons as required by Section 45.1-114, above cited, as follows (list names and mail address of each. Use back of sheet if additional space is required):

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____

Signature of officer or certifying party:
Robert F. Spear
Name
OPERATOR
Title

Very truly yours,
TAMIK OIL COMPANY
Drilling Company or Operator
Box 6
Street Address
Ewing, Virginia 24248
City or Town and State

File LE-35 Date Received 7-29-77 Well No. 101

VIRGINIA DIVISION OF MINERAL RESOURCES
Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page 1 of

Well Repository No.: W- 4647

Date rec'd: Date Processed: April, 1977

Sample Interval: from 0 to: 2135'

PROPERTY: Logan Snodgrass Heirs #101

Number of samples: 181

COMPANY: Tamik Oil Company

Total Depth: 2135'

COUNTY: Lee

Oil or Gas: X Water: Exploratory:

From-To	From-To	From-To	From-To	From-To
0 - 10	300- 310	600 - 610	900 - 10	-
10 - 20	310- 322	610 - 620	10 - 20	-
20 - 30	-	620 - 630	20 - 30	-
30 - 40	332- 344	630 - 640	30 - 40	-
40 - 50	-	640 - 646	40 - 50	-
50 - 60	-	656 - 666	50 - 60	-
60 - 70	364- 374	666 - 674	60 - 70	-
70 - 80	374- 389	674 - 685	70 - 80	-
80 - 90	389- 397	685 - 695	80 - 90	-
-	-	695 - 708	90 - 1000	-
-	400- 415	708 - 715	1000 - 10	-
116 - 124	-	715 - 725	10 - 20	-
-	-	-	20 - 30	-
-	-	-	30 - 40	-
140 - 148	445- 455	745 - 755	40 - 50	-
148 - 156	455- 465	755 - 765	50 - 60	-
156 - 164	-	765 - 775	60 - 70	-
164 - 188	475- 485	775 - 788	70 - 80	-
188 - 199	485- 500	788 - 800	80 - 90	-
199 - 210	-	-	90 - 1100	-
-	-	800 - 10	1100 - 10	-
-	515- 525	10 - 20	10 - 20	-
-	-	20 - 30	20 - 30	-
-	-	30 - 40	30 - 40	-
-	-	40 - 50	40 - 50	-
-	555- 565	50 - 60	50 - 60	-
-	-	60 - 70	60 - 70	-
-	575- 585	70 - 80	70 - 80	-
-	-	80 - 90	80 - 90	-
-	585- 600	90 - 900	90 - 1200	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

VIRGINIA DIVISION OF MINERAL RESOURCES
Box 3667, Charlottesville, VA 22903

INTERVAL SHEET
Continued

Page 2 of

Well Repository No.: W- 4647

From-To	From-To	From-To	From-To	From-To
1200 - 10	1600 - 10	2000 - 10	-	-
10 - 20	10 - 20	10 - 20	-	-
20 - 30	20 - 20	20 - 29	-	-
30 - 40	30 - 40	29 - 34	-	-
40 - 50	40 - 50	34 - 45	-	-
50 - 60	50 - 60	45 - 51	-	-
60 - 70	60 - 70	51 - 61	-	-
70 - 80	70 - 80	72 - 83	-	-
80 - 90	80 - 90	83 - 89	-	-
90 - 1300	90 - 1700	89 - 94	-	-
		94 - 2100		
1300 - 10	1700 - 10	2100 - 2105	-	-
10 - 20	1715 - 1722	2119 - 2135	-	-
20 - 30	1722 - 1730	-	-	-
30 - 40	1736 - 1744	-	-	-
40 - 50	1744 - 1755	-	-	-
50 - 60	1755 - 65	-	-	-
60 - 70	65 - 74	-	-	-
70 - 80	74 - 85	-	-	-
80 - 90	85 - 96	-	-	-
90 - 1400	96 - 1800	-	-	-
1400 - 10	1800 - 1806	-	-	-
10 - 20	06 - 14	-	-	-
20 - 30	14 - 30	-	-	-
30 - 40	30 - 36	-	-	-
40 - 50	36 - 43	-	-	-
50 - 60	43 - 53	-	-	-
60 - 70	53 - 63	-	-	-
70 - 80	63 - 71	-	-	-
80 - 90	71 - 81	-	-	-
90 - 1500	81 - 92	-	-	-
	1892 1900			
1500 - 10	1900 - 08	-	-	-
10 - 20	08 - 15	-	-	-
20 - 30	15 - 21	-	-	-
-	21 - 26	-	-	-
-	26 - 33	-	-	-
50 - 60	33 - 44	-	-	-
60 - 70	51 - 60	-	-	-
70 - 80	61 - 67	-	-	-
80 - 90	67 - 77	-	-	-
90 - 1600	77 - 88	-	-	-
	88 2000			