

LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 080382-1
LEASE OR PERMIT TO PROSPECT
Schwardtfeger #9
C 34 NE NEUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company The Frontier Refining Company Address 410 Boston Bldg., Denver, Colorado
Lessor or Tract Schwardtfeger-Government Field W. Kutz Canyon (Ext) State New Mexico
Well No. 9 Sec. 17 T. 27N R. 11W Meridian N.M.P.M. County San Juan 6215 KB
Location 990 ft. SW of N Line and 990 ft. EW of E Line of Section 17 Elevation 6205 Grd
(Derrick floor relative to sea level) 6207 CC

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed Denman S. GalbraithDate January 27, 1953Title Denman S. Galbraith, Geologist

The summary on this page is for the condition of the well at above date.

Commenced drilling January 17, 19 52 Finished drilling January 20, 19 52

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1896 to 2012 (G) No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated	Purpose
8 5/8"	24.7#	8rd. thd.		110'				Surface
5 1/2"	18.5#	8rd. thd.		1907'				Production
1"	3.4#	8rd. thd.		1921'				Gipson

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	120' KB	95 sacks	plug		
5 1/2"	1921' KB	80 sacks	plug		
1"	1923' KB	-	-		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
2 1/2" x 5	7	Jel. Nitro	50 qts.	1/30/52	1921-62' KB	Damaged casing
3 1/2" x 20	3	liquid nitro	2 qts.	3/23/52	1910-15' CC	1953' CC
		liquid nitro	60 qts.	3/24/52	1922-53' CC	1952' CC

TOOLS USED

Rotary tools were used from 0 feet to 1921' KB feet, and from _____ feet to _____ feet
Cable tools were used from 1921 feet to 2012' KB feet, and from _____ feet to _____ feetCompleted 1/30/52

DATES

Reworked & Completed 5/4, 19 52 Put to producing Shut in, 19 _____

The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours 260,000 Gallons gasoline per 1,000 cu. ft. of gas _____Rock pressure, lbs. per sq. in. 465#

EMPLOYEES

Carden Drilling Co. _____, Driller _____, Driller
English Drilling Co. _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1860	1860	Sand and shale.
1860	1869	9	Coal.
1869	1873	4	Shale.
1873	1878	5	Coal.
1878	1885	7	Shale.
1885	1896	11	Coal.
1896	1914	18	Silty sandstone and sandy shale. Top Pictured Cliffs formation at 1896' KB. Top of Pictured Cliffs sandstone at 1914' KB.
1914	2012	98'	Sand with occasional shale breaks.
	2012' KB	TD	(No electric log run)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

A blank sheet of graph paper with a grid pattern. The grid consists of 10 columns and 8 rows of squares. There are small dark marks or smudges near the top left corner of the grid.

The strategy on this case is the collection of data as above data

100.8 from 100.8
100.8 from 100.8
100.8 from 100.8

HISTORY OF OIL OR GAS WELL

Year	Number of cases of cholera	Number of deaths	Number of cases of typhoid	Number of deaths
1900	10	2	5	1
1901	15	3	8	2
1902	20	4	10	3
1903	25	5	12	4
1904	30	6	15	5
1905	35	7	18	6
1906	40	8	20	7
1907	45	9	22	8
1908	50	10	25	9
1909	55	11	28	10
1910	60	12	30	11
1911	65	13	32	12
1912	70	14	35	13
1913	75	15	38	14
1914	80	16	40	15
1915	85	17	42	16
1916	90	18	45	17
1917	95	19	48	18
1918	100	20	50	19
1919	105	21	52	20
1920	110	22	55	21
1921	115	23	58	22
1922	120	24	60	23
1923	125	25	62	24
1924	130	26	65	25
1925	135	27	68	26
1926	140	28	70	27
1927	145	29	72	28
1928	150	30	75	29
1929	155	31	78	30
1930	160	32	80	31
1931	165	33	82	32
1932	170	34	85	33
1933	175	35	88	34
1934	180	36	90	35
1935	185	37	92	36
1936	190	38	95	37
1937	195	39	98	38
1938	200	40	100	39
1939	205	41	102	40
1940	210	42	105	41
1941	215	43	108	42
1942	220	44	110	43
1943	225	45	112	44
1944	230	46	115	45
1945	235	47	118	46
1946	240	48	120	47
1947	245	49	122	48
1948	250	50	125	49
1949	255	51	128	50
1950	260	52	130	51
1951	265	53	132	52
1952	270	54	135	53
1953	275	55	138	54
1954	280	56	140	55
1955	285	57	142	56
1956	290	58	145	57
1957	295	59	148	58
1958	300	60	150	59
1959	305	61	152	60
1960	310	62	155	61
1961	315	63	158	62
1962	320	64	160	63
1963	325	65	162	64
1964	330	66	165	65
1965	335	67	168	66
1966	340	68	170	67
1967	345	69	172	68
1968	350	70	175	69
1969	355	71	178	70
1970	360	72	180	71
1971	365	73	182	72
1972	370	74	185	73
1973	375	75	188	74
1974	380	76	190	75
1975	385	77	192	76
1976	390	78	195	77
1977	395	79	198	78
1978	400	80	200	79
1979	405	81	202	80
1980	410			

[illegible]

Depth	Time	Temperature	Direction	Speed	Remarks
100	10:00	10.0	100	10.0	10.0
200	10:05	10.0	100	10.0	10.0
300	10:10	10.0	100	10.0	10.0
400	10:15	10.0	100	10.0	10.0
500	10:20	10.0	100	10.0	10.0
600	10:25	10.0	100	10.0	10.0
700	10:30	10.0	100	10.0	10.0
800	10:35	10.0	100	10.0	10.0
900	10:40	10.0	100	10.0	10.0
1000	10:45	10.0	100	10.0	10.0
1100	10:50	10.0	100	10.0	10.0
1200	10:55	10.0	100	10.0	10.0
1300	11:00	10.0	100	10.0	10.0
1400	11:05	10.0	100	10.0	10.0
1500	11:10	10.0	100	10.0	10.0
1600	11:15	10.0	100	10.0	10.0
1700	11:20	10.0	100	10.0	10.0
1800	11:25	10.0	100	10.0	10.0
1900	11:30	10.0	100	10.0	10.0
2000	11:35	10.0	100	10.0	10.0
2100	11:40	10.0	100	10.0	10.0
2200	11:45	10.0	100	10.0	10.0
2300	11:50	10.0	100	10.0	10.0
2400	11:55	10.0	100	10.0	10.0
2500	12:00	10.0	100	10.0	10.0
2600	12:05	10.0	100	10.0	10.0
2700	12:10	10.0	100	10.0	10.0
2800	12:15	10.0	100	10.0	10.0
2900	12:20	10.0	100	10.0	10.0
3000	12:25	10.0	100	10.0	10.0
3100	12:30	10.0	100	10.0	10.0
3200	12:35	10.0	100	10.0	10.0
3300	12:40	10.0	100	10.0	10.0
3400	12:45	10.0	100	10.0	10.0
3500	12:50	10.0	100	10.0	10.0
3600	12:55	10.0	100	10.0	10.0
3700	13:00	10.0	100	10.0	10.0
3800	13:05	10.0	100	10.0	10.0
3900	13:10	10.0	100	10.0	10.0
4000	13:15	10.0	100	10.0	10.0
4100	13:20	10.0	100	10.0	10.0
4200	13:25	10.0	100	10.0	10.0
4300	13:30	10.0	100	10.0	10.0
4400	13:35	10.0	100	10.0	10.0
4500	13:40	10.0	100	10.0	10.0
4600	13:45	10.0	100	10.0	10.0
4700	13:50	10.0	100	10.0	10.0
4800	13:55	10.0	100	10.0	10.0
4900	14:00	10.0	100	10.0	10.0
5000	14:05	10.0	100	10.0	10.0
5100	14:10	10.0	100	10.0	10.0
5200	14:15	10.0	100	10.0	10.0
5300	14:20	10.0	100	10.0	10.0
5400	14:25	10.0	100	10.0	10.0
5500	14:30	10.0	100	10.0	10.0
5600	14:35	10.0	100	10.0	10.0
5700	14:40	10.0	100	10.0	10.0
5800	14:45	10.0	100	10.0	10.0
5900	14:50	10.0	100	10.0	10.0
6000	14:55	10.0	100	10.0	10.0
6100	15:00				

[illegible][illegible]

FORMATION	TOTAL FEET	TO-	FROM-

HISTORY OF OIL OR GAS WELL

1-17-52 Spudded. Ran 3 joints (110') of 8 5/8" OD, 24.7#/ft., Grade B line pipe and set at 120'KB with 95 sacks of cement.

1-18-52 Tested casing with 500# pressure for 30 minutes and showed no drop in pressure. After drilling plug tested for 30 minutes with 300# and water level remained stationary. Drilled to 847'KB.

1-19-52 Drilled to 1894'KB.

1-20-52 Drilled to 1921'KB. Top of Pictured Cliffs sandstone at 1914'KB. Ran 64 joints of 5 1/2" OD, 17 & 15.5#/ft., 8 rd. thd., API casing and set at 1921'KB with 80 sacks of cement. Moved off rotary tools.

1-26-52 Moved in cable tools and drilled to 1888'KB.

1-27-52 Drilled thru plug and hole stood dry for 30 minutes.

1-28-52 Drilled to 2000'KB.

1-29-52 Drilled to 2012'KB.

1-30-52 Plugged back from 2012'KB to 1962'KB with 8 sacks of dry cement. Treated 20 gallons of water on top of cement. Ran 50 quarts of jellied nitro from 1941-1962'KB.

1-31-52 Well gauged 260 MFCFD. Shut in. Rig off. Completed.

2-8-52 Moved on cable tools. Heavy mud at 1500'CC. Ran 4 3/4" swage which stopped at 1903'CC.

3-8-52 Swaging at 1903'CC.

3-9-52 Hung swage at 1903'CC. Jarring on swage. Spotted oil.

3-10-52 Loaded hole with water. Jarring on tools.

3-11-52 Waiting on fishing tools.

3-12-52 Fished out swage and began swaging casing.

3-13-52 Swaged to 1914'CC. Began drilling casing with 4 3/4" spiral bit.

3-14-52 Drilled to 1912'CC.

3-15-52 Swaging on casing.

3-16-52 Swaging on pipe.

3-17-52 Worked sand pump to 1950'CC.

3-18-52 Bailed down casing.

3-19-52 Cleaned out with sand pump to solid cement plug at 1974'CC.

3-20-52 Bailing and swabbing.

3-21-52 Cleaned out with sand pump to 1963'CC.

3-22-52 Working on casing.

3-23-52 Set squib shot of 2 qts. of liquid nitro from 1910-1915'CC. Bailed out to 1953'CC.

3-24-52 Ran 60 quarts of liquid nitro as follows:
Cal Seal 1873-1909' CC
Hydromite 1909-1917' CC
Cal Seal 1917-1918' CC
Gravel bridge 1918-1922' CC
60 qt. shot 1922-1953' CC (1931-1962' KB)

3-25-52 Shot off at 10:00 A. M. Drilled plug and ran tools to 1952'CC. Bailing hole.

3-28-52 Still bailing hole. Decided to let well sit. Moved off tools. Temporarily suspended.

4-15-52 Rigging up cable tools. Bailing.

4-18-52 Still bailing.

4-19-52 Cleaning out.

4-20-52 Mixing mud with tools.

4-21-52 Cleaning out mud.

4-22-52 Cleaned out to 1937' CC.

4-23-52 Mixed water with mud in bottom of hole and bailing.

4-24-52 Bailing thick sandy mud.

4-25-52 Cleaned to 1952' CC TD.

4-26-52 Ran 90 joints (1953') of 1" tubing and touched bottom at 1957' CC by 1" tally.

4-27-52 Tubing plugged.

4-28-52 Pulled tubing and found bottom 2 joints plugged with sand.

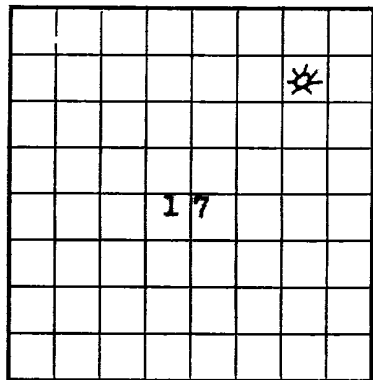
4-29-52 Found 11' of sand in hole. Cleaned out to 1952'CC.

4-30-52 Hole making mud very slowly. Cleaning out.

5-3-52 Still cleaning out. Tools went to 1960'CC.

5-4-52 Ran 90 joints (1941') of 1" API black line pipe and touched bottom at 1948'KB. Completed as shut in gas well at approximately 260 MFCFD at 465# shut in pressure.

Form 9-330



U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 080382-A
LEASE OR PERMIT TO PROSPECT _____
Schwardtfeger #9
UNITED STATES C SW NE

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company The Frontier Refining Company Address 410 Boston Bldg., Denver, Colorado
Lessor or Tract Schwardtfeger-Government Field W.Kutz Canyon(Ext) State New Mexico
Well No. 9 Sec. 17 T. 27N R. 11W Meridian N.M.P.M. County San Juan 6215 KB
Location 990 ft. of N Line and 990 ft. of E Line of Section 17 Elevation 6206 Grd
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed Denman S. Galbraith
Date January 27, 1953 Title Denman S. Galbraith, Geologist

The summary on this page is for the condition of the well at above date.

Commenced drilling January 17, 19 52 Finished drilling January 29, 19 52

OIL OR GAS SANDS OR ZONES

(Denote gas by G)
No. 1, from 1896 to 2012 (G) No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>8 5/8"</u>	<u>24.7#</u>	<u>8rd. thd.</u>		<u>110'</u>					<u>Surface</u>
<u>5 1/2"</u>	<u>15.5#</u>	<u>8rd. thd.</u>		<u>1921'</u>					<u>Production</u>
<u>1"</u>				<u>1914'</u>					<u>Siphon</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8 5/8"</u>	<u>120'KB</u>	<u>95 sacks</u>	<u>plug</u>		
<u>5 1/2"</u>	<u>1921'KB</u>	<u>80 sacks</u>	<u>plug</u>		
<u>1"</u>	<u>1914'KB</u>	<u>-</u>	<u>-</u>		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		<u>Jel. Nitro</u>	<u>50 qts.</u>	<u>1/30/52</u>	<u>1911-62'KB</u>	<u>Damaged casing</u>
<u>2 1/2 x 5</u>	<u>?</u>	<u>liquid nitro</u>	<u>2 qts.</u>	<u>3/23/52</u>	<u>1910-15'CC</u>	<u>1953'CC</u>
<u>3 1/2 x 20</u>	<u>3</u>	<u>liquid nitro</u>	<u>60 qts.</u>	<u>3/24/52</u>	<u>1922-53'CC</u>	<u>1952'CC</u>

TOOLS USED

Rotary tools were used from 0 feet to 1921'KB feet, and from _____ feet to _____ feet
Cable tools were used from 1921 feet to 2012'KB feet, and from _____ feet to _____ feet

Completed 1/30/52

DATES

Reworked & Completed 5/4, 19 52 Put to producing Shut in, 19 _____

The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours 260,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 465#

EMPLOYEES

Camden Drilling Co., Driller _____, Driller _____
English Drilling Co., Driller _____, Driller _____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1860</u>	<u>1860</u>	<u>Sand and shale.</u>
<u>1860</u>	<u>1869</u>	<u>9</u>	<u>Coal.</u>
<u>1869</u>	<u>1873</u>	<u>4</u>	<u>Shale.</u>
<u>1873</u>	<u>1878</u>	<u>5</u>	<u>Coal.</u>
<u>1878</u>	<u>1885</u>	<u>7</u>	<u>Shale.</u>
<u>1885</u>	<u>1896</u>	<u>11</u>	<u>Coal.</u>
<u>1896</u>	<u>1914</u>	<u>18</u>	<u>Silty sandstone and sandy shale. Top Pictured Cliffs formation at 1896'KB. Top of Pictured Cliffs sandstone at 1914'KB.</u>
<u>1914</u>	<u>2012</u>	<u>98'</u>	<u>Sand with occasional shale breaks.</u>
	<u>2012' KB</u>	<u>TD</u>	<u>(No electric log run)</u>
			<u>1962 Plugged back w/ 8 sacks cement</u>

SEOW

JO

JOINT USE

(OVER)

LOGS/100A

16-43094-2

FORMATION RECORD

HISTORY OF OIL OR GAS WELL

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1-28-52 Drilled to 2000'KB.

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1-31-52 Well gauged 260 MCF/GPD. Shut in. Rig off. Completed.

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4-15-52 Rigging up cable tools. Bailing.

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4-21-52 Cleaning out mud.

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4-23-52 Mixed water with mud in bottom of hole and bailing.

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4-28-52 Pulled tubing and found bottom 2 joints plugged with sand.

4-29-52 Found 11' of sand in hole. Cleaned out to 1952'CC.

4-30-52 Hole making mud very slowly. Cleaning out.

5-3-52 Still cleaning out. Tools went to 1960'CC.

5-4-52 Ran 90 joints (1941') of 1" API black line pipe and touched bottom at 1948'KB. Completed as shut in gas well at approximately 260 MCF/GPD at 465# shut in pressure.

Vol. 100
Part 1

1. The Evolution of Man	1
2. The Evolution of the Brain	15
3. The Evolution of the Larynx	31
4. The Evolution of the Hand	47
5. The Evolution of the Foot	63
6. The Evolution of the Teeth	79
7. The Evolution of the Skin	95
8. The Evolution of the Hair	111
9. The Evolution of the Nails	127
10. The Evolution of the Eyes	143
11. The Evolution of the Ears	159
12. The Evolution of the Nose	175
13. The Evolution of the Mouth	191
14. The Evolution of the Throat	207
15. The Evolution of the Trachea	223
16. The Evolution of the Lungs	239
17. The Evolution of the Heart	255
18. The Evolution of the Blood	271
19. The Evolution of the Digestive System	287
20. The Evolution of the Excretory System	303
21. The Evolution of the Reproductive System	319
22. The Evolution of the Immune System	335
23. The Evolution of the Nervous System	351
24. The Evolution of the Senses	367
25. The Evolution of the Mind	383
26. The Evolution of the Soul	399
27. The Evolution of the Spirit	415
28. The Evolution of the Ghost	431
29. The Evolution of the Demon	447
30. The Evolution of the Devil	463
31. The Evolution of the Angel	479
32. The Evolution of the Saint	495
33. The Evolution of the Prophet	511
34. The Evolution of the Messiah	527
35. The Evolution of the Christ	543
36. The Evolution of the Buddha	559
37. The Evolution of the Mahatma	575
38. The Evolution of the Pope	591
39. The Evolution of the King	607
40. The Evolution of the President	623
41. The Evolution of the Prime Minister	639
42. The Evolution of the General	655
43. The Evolution of the Admiral	671
44. The Evolution of the Bishop	687
45. The Evolution of the Priest	703
46. The Evolution of the Monk	719
47. The Evolution of the Nun	735
48. The Evolution of the Hermit	751
49. The Evolution of the Mystic	767
50. The Evolution of the Philosopher	783
51. The Evolution of the Scientist	799
52. The Evolution of the Artist	815
53. The Evolution of the Musician	831
54. The Evolution of the Poet	847
55. The Evolution of the Novelist	863
56. The Evolution of the Playwright	879
57. The Evolution of the Actor	895
58. The Evolution of the Dancer	911
59. The Evolution of the Singer	927
60. The Evolution of the Composer	943
61. The Evolution of the Painter	959
62. The Evolution of the Sculptor	975
63. The Evolution of the Architect	991
64. The Evolution of the Engineer	1007
65. The Evolution of the Doctor	1023
66. The Evolution of the Lawyer	1039
67. The Evolution of the Judge	1055
68. The Evolution of the Politician	1071
69. The Evolution of the Statesman	1087
70. The Evolution of the Soldier	1103
71. The Evolution of the Sailor	1119
72. The Evolution of the Farmer	1135
73. The Evolution of the Worker	1151
74. The Evolution of the Merchant	1167
75. The Evolution of the Banker	1183
76. The Evolution of the Entrepreneur	1199
77. The Evolution of the Inventor	1215
78. The Evolution of the Explorer	1231
79. The Evolution of the Adventurer	1247
80. The Evolution of the Hero	1263
81. The Evolution of the Legend	1279
82. The Evolution of the Myth	1295
83. The Evolution of the Fable	1311
84. The Evolution of the Parable	1327
85. The Evolution of the Allegory	1343
86. The Evolution of the Symbol	1359
87. The Evolution of the Metaphor	1375
88. The Evolution of the Simile	1391
89. The Evolution of the Hyperbole	1407
90. The Evolution of the Irony	1423
91. The Evolution of the Satire	1439
92. The Evolution of the Comedy	1455
93. The Evolution of the Tragedy	1471
94. The Evolution of the Drama	1487
95. The Evolution of the Opera	1503
96. The Evolution of the Ballet	1519
97. The Evolution of the Circus	1535
98. The Evolution of the Theatre	1551
99. The Evolution of the Cinema	1567
100. The Evolution of the Television	1583