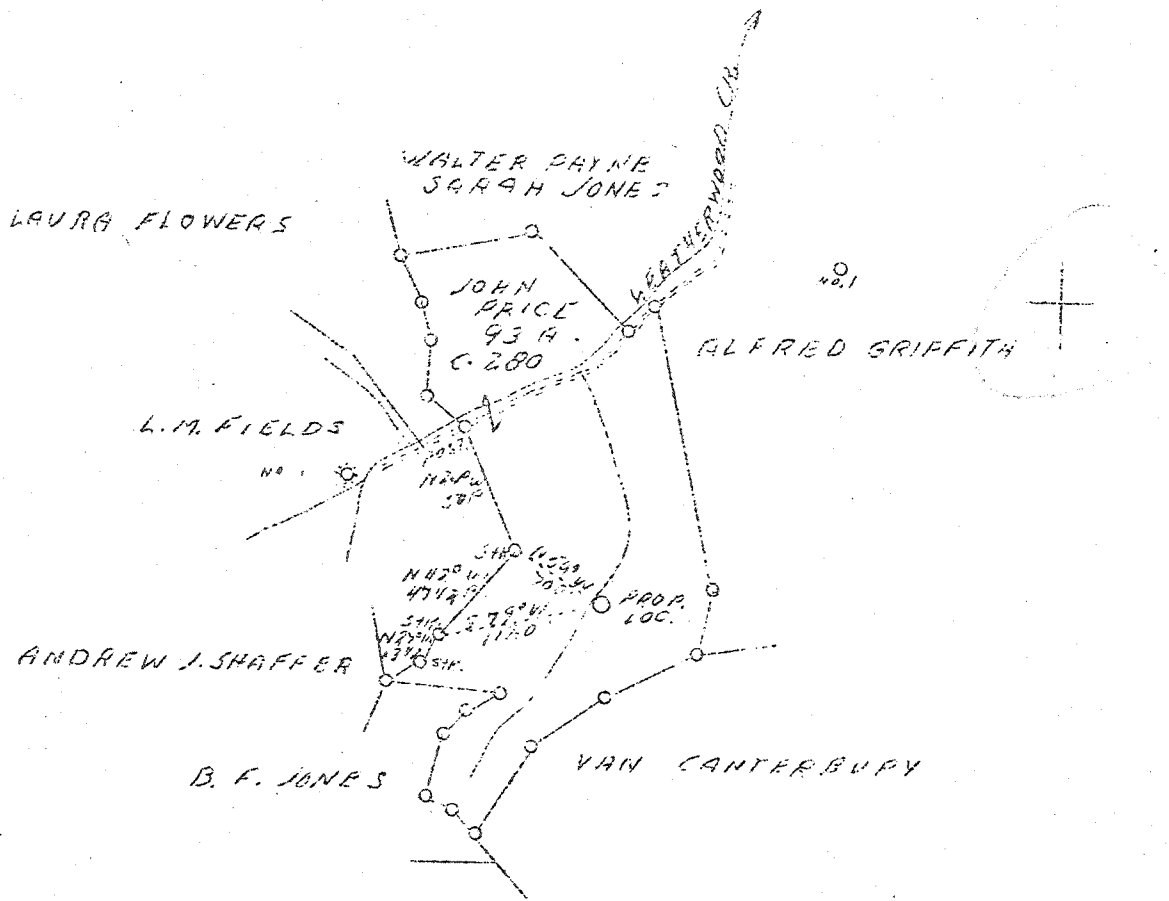


LATITUDE 38°35'

LONGITUDE 81°30'



W - 1.35
S - 4.25

New location

1.2 M. SOUTH OF BLUNDON

Company	Columbian Carbon Co.
Address	Box 1240 Chas., W.Va.
Farm	John Price
Acres	93
Lease No.	C - 280
Well (Farm) No.	1
El. (S.L.)	875.7
Quadrangle	Kenna S.E.
County	Kanawha
District	Poca
Eng.	James W. Scoll
Eng. Reg. No.	772
Date	8/26/39
Scale	1" - 1320'

STATE OF WEST VIRGINIA
Department of Mines
OIL AND GAS DIVISION
Charleston

WELL LOCATION MAP

File No. Kan-660

x Denotes location of well on U.S. Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

Summit 660
~~279~~

Temperature observations,
Columbian Carbon Company, Charleston, W. Va.
John Price, G. W. 434

Location: About $7\frac{1}{2}$ miles north of the village of Elk View, W. Va., on the east side of a narrow valley (see Charleston Quadrangle Topography). Date of test, April 16-18, 1941.

Remarks: Observations to and including 4500 feet made by hand operated equipment; below this depth the thermometers were lowered on the bottom of the bailer. Casing very sticky. Hole seemed to be somewhat crooked. Irregularities in the depth-temperature curve may be the result of the disturbed heat flow in the formations caused by drilling operations. Depths are in feet below the normal ground surface, temperatures in degrees Fahrenheit. Each reading of temperatures is the average of three thermometers unless otherwise noted.

Depth in feet	Temperature in °F
100	55.2
500	58.8
1000	64.5
1500	67.6
1762	70.0
2000	72.7
2500	79.5
3000	85.5
3500	95.7
4000	101.9
4500	110.5
5000	120.6 (Mean of 8 thermometers)
5500	125.1 (Mean of 9 thermometers)
6000	128.4 (Mean of 8 thermometers)
6500	128.5 (Mean of 8 thermometers)

Tested by H. Cecil Spicer and C. E. Van Orstrand.

1.3 miles S. of Blind
post

1.37 mi. W of 81° 30' - 4.25 mi S,
of 38° 35' SE. Kenner Small

Kan. 660
~~279~~

Temperature observations,
Columbian Carbon Company, Charleston, W. Va.
John Price, G. W. 434

Location: About $7\frac{1}{2}$ miles north of the village of Elk View, W. Va., on the east side of a narrow valley (see Charleston Quadrangle Topography). Date of test, April 16-18, 1941.

Remarks: Observations to and including 4500 feet made by hand operated equipment; below this depth the thermometers were lowered on the bottom of the bailer. Casing very sticky. Hole seemed to be somewhat crooked. Irregularities in the depth-temperature curve may be the result of the disturbed heat flow in the formations caused by drilling operations. Depths are in feet below the normal ground surface, temperatures in degrees Fahrenheit. Each reading of temperatures is the average of three thermometers unless otherwise noted.

Depth in feet	Temperature in °F
100	55.2
500	58.8
1000	64.5
1500	67.6
1762	70.0
2000	72.7
2500	79.5
3000	85.5
3500	95.7
4000	101.9
4500	110.5
5000	120.6 (Mean of 8 thermometers)
5500	125.1 (Mean of 9 thermometers)
6000	128.4 (Mean of 8 thermometers)
6500	128.5 (Mean of 8 thermometers)

Tested by H. Cecil Spicer and C. E. Van Orstrand.

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
WELL RECORD

Permit No. Kan-660
Kanna Quad.

Gas Well

CASING & TUBING

Company Columbian Carbon Co.
Address B-1240, Charleston, W. Va.
Farm John Price ACRES 93
Location Leatherwood Creek
Well No. 1 (GW-434) ELEV. 881.1 BF
District Poca - Kanawha County
Surface & Mineral John Price & Anna Price
Address Big Chimney, W. Va.
Commenced Sept. 23, 1939
Completed Jan. 11, 1940
Shot 1/12/40 - Depth 5076-5100
Volume 21,060 c.f.
Rock Pressure 300 lbs. 2 days
Oil 1736 - show
Fresh Water 595' 1/2-10" bailer per hr.
Salt Water 1275' 2-10 " "
Salt Water 1285 - Hole full

L4	46-4	46-4
10-3/4	406-11	pulled
8-5/8	1613-4	1613-4
7	4998	4998

No packer

Gravel	0	12	Slate	2010	2114	
Slate Shell	12	35	Lime Shells&Slate	2114	2513	Sh. Gas 2116
Lime Shell	35	45	Slate&Shells	2513	2575	
Slate	45	55	Slate	2575	3050	
Sand	55	65	Slate&Shells	3050	3500	
Slate	65	75	LimeShells&Slate	3500	3700	
Red Rock	75	155	Brown Shale	3700	3725	
Slate	155	170	WhiteSlate&Shells	3725	3870	
Red Rock	170	180	Brown Shale	3870	3935	
Slate	180	195	White Slate	3935	3950	
Sand	195	205	Brown Shale	3950	4040	
Slate	205	208	White Slate	4040	4550	
Sand	208	225	Brown Shale	4550	4845	
Slate	225	255	White Slate	4845	4883	
Red Rock	255	315	Brown Shale	4883	4956*	HSLM
Sand	315	355	Corniferous LimeHSLM	4956	5066*	
Slate	355	385	Oriskany Sand	5066	5118	SLM
Sand	385	515	Lime -	5118	5126	
Slate	515	535	Oriskany Sand -	5126	5147*	SLM
Sand	535	615	Black Lime -	5147	5151	SLM
Slate	615	650				
Sand	650	695	Total Depth		5151	
Slate	695	735				
Sand	735	810				
Slate&Shell	810	865				
Sand	865	920				
Slate	920	1045				
Salt Sand	1045	1508				
Slate	1508	1515				
Lime	1515	1532				
Maxon Sand	1532	1560				
Little Lime	1560	1587				
Slate	1587	1590				
Lime	1590	1592				
Slate	1592	1594				
Big Lime	SLM 1594	1604				
Slate	1604	1608				
Big Lime	1608	1755				
Big Injun Sand	1755	1800				
Slate	1800	1807				
Shell	1807	1812				
Slate	1812	1827				
Shell	1827	1832				
Slate	1832	1848				
Shell	1848	1850				
Slate&Shells	1850	2010				

(*Per sample examinations)

PAY: 5094

Gas 1145-50 show

W 1275

HFV 1285

SLM

Gas 1648-50 small show

Oil & Water 1736 - 1 1/2 bailers

CEMENT RECORD: 10/19/39 cemented 8-5/8 casing. Ran 67 sacks Alpha cement mixed with 1% Aquagel. Ran 4 sacks Aquagel ahead of cement 4% mixture. 10' spacer and plug ahead of cement. Casing went back to bottom. 16' solid cement in pipe. Dallas Holley, Cementer - Halliburton Oil Well Cementing Co.

CEMENT RECORD: 12/19/39 - Cemented 7" cass. Ran 25 sacks Alpha cement. 10' spacer. Ran plug on top cement. 8' cement in pipe. Dick Allen, Cementer - Halliburton Oil Well cementing company.

4956 5066 5147
881 881 881
4075 4185 4266

V. 16, p. 521 has T.D. of 6671
Newburg 5867-5916 = 49'
Clinton (Tuscarora) 6630-6671 = 41'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. Kan-660

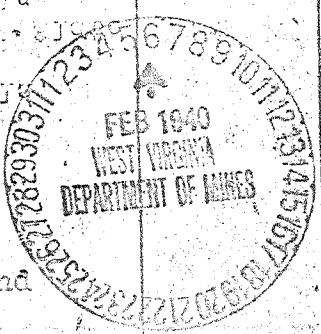
Oil or Gas Well Gas
(Kind)

Company..... COLUMBIAN CARBON COMPANY
 Address..... Box 1240, Charleston, W. Va.
 Farm..... John Price Acres 93
 Location (waters)..... Leatherwood Creek
 Well No. 1 (CW-434) Elev. 881.1 DF
 District..... Poca County Kanawha
 The surface of tract is owned in fee by..... John Price and
Anna Price Address..... Big Chimney, W. Va.
 Mineral rights are owned by..... "SAME"
 Address.....
 Drilling commenced..... 9/23/39
 Drilling completed..... 1/11/40
 Date shot..... 1/12/40 Depth of shot..... 5076-5100
 Open Flow /10ths Water in..... Inch
 /10ths Merc. in..... Inch
 Volume..... 21,060 Cu. Ft.
 Rock Pressure..... 300 lbs. 2 Days
 Oil..... 1736' - Show
 Fresh water..... 595' $\frac{1}{2}$ -10" Bailers per Hr. feet
 Salt water..... 1275' 2-10" Bailers per Hr. feet
1285' HFW

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			No Packer
12 11"	16' 1"	16' 1"	Size of
10-3/4"	406' 11"	Pulled	Depth set
8 5/8"	1613' 4"	1613' 4"	Perf. top
7"	4998'	4998'	Perf. bottom
5 3/16"			Perf. top
3"			Perf. bottom
2"			Perf. top
Liners Used			Perf. bottom

CASING CEMENTED..... SIZE..... No. Ft.....
 See Reverse Side
 COAL WAS ENCOUNTERED AT..... FEET..... INCHES
 FEET..... INCHES..... FEET..... INCHES
 FEET..... INCHES..... FEET..... INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Gravel			0	12			
Slate Shell			12	35			
Lime Shell			35	45			
Slate			45	55			
Sand			55	65			
Slate			65	75			
Red Rock			75	155			
Slate			155	170			
Red Rock			170	180			
Slate			180	195			
Sand			195	205			
Slate			205	208			
Sand			208	225			
Slate			225	255			
Red Rock			255	315			
Sand			315	355			
Slate			355	385			
Sand			385	515			
Slate			515	535			
Sand			535	615	Fresh Water	595	$\frac{1}{2}$ -10" Bailers per Hr.
Slate			615	650			
Sand			650	695			
Slate			695	735			
Sand			735	810			
Slate & Shell			810	865			
Sand			865	920			
Slate			920	1045	Gas	1145-50	Show
Salt Sand			1045	1508	Water	1275	2-10" Bailers per Hr.
Slate			1508	1515			
Lime			1515	1532	Water	1285	Hole Full
Maxton Sand			1532	1560			
Little Lime			1560	1587			
Slate			1587	1590			
Lime			1590	1592			
Slate			1592	1594	SLM		
Big Lime			1594	1604			
Slate			1604	1608			
Big Lime			1608	1755	Gas	1648-50	Small Show
Big Injun Sand			1755	1800	Oil & Water	1736	$\frac{1}{2}$ Bailers
Slate			1800	1807			
Shell			1807	1812			



(Over)

DEEP WELL

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found
			1700	1700		
			1717	1700		
			1700	1712		
Slate			1812	1827		
Shell			1827	1832		
Slate			1852	1818		
Shell			1848	1850		
Slate & Shells			1850	2010		
Slate			2010	2114		
Lime Shells & Slate			2114	2513	Gas	2116
Slate & Shells			2513	2575		
Slate			2575	3050		
Slate & Shells			3050	3500		
Lime Shells & Slate			3500	3700		
Brown Shale			3700	3725		
White Slate & Shells			3725	3870		
Brown Shale			3870	3935		
White Slate			3935	3950		
Brown Shale			3950	4040		
White Slate			4040	4550		
Brown Shale			4550	4845		
White Slate			4845	4883		
Brown Shale			4883	4956	HSLM	(also per sample examination)
Corniferous Lime			4956	5066	HSLM	(per sample examination)
Oriskany Sand			5066	5118	SLM	
Lime			5118	5126		
Oriskany Sand			5126	5147	SLM	(also per sample examination)
Black Lime			5147	5151	SLM	
Total Depth				5151	SLM	

PAY: 5094

CEMENT RECORD: 10/19/39 - Cemented 8-5/8" casing.
 Ran 67 Sacks Alpha Cement mixed with 1% Aquagel. Ran 4 Sacks Aquagel ahead of cement 4% Mixture. 10' spacer and plug ahead of cement. Casing went back to bottom. 16' solid cement in pipe. Dallas Holley, Cementer - Halliburton Oil Well Cementing Company.

12/19/39 - Cemented 7" Casing.
 Ran 25 Sacks Alpha cement. 10' spacer. Ran plug on top cement. 3' cement in pipe. Dick Allen, Cementer - Halliburton Oil Well Cementing Company.

Date February 1,

APPROVED COLUMBIAN CARBON COMPANY

By *[Signature]*
 (Title)
 O. W. Van Petten, Supt.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Plant No. Kan-660-D Oil or Gas Well DRY
(MIN)

Company <u>Columbian Carbon Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>Box 1210, Charleston, W. Va.</u>	Size			Kind of Packer
Farm <u>John Price</u> Acres <u>93</u>	16			
Location (waters) <u>Leatherwood</u>	18			
Well No. <u>1 (GX-131)</u> Elev. <u>881.1 DE</u>	10 1/2"	<u>16' 1"</u>	<u>16' 1"</u>	Size of
District <u>Poca</u> County <u>Kanawha</u>	8 5/8"	<u>1613' 1"</u>	<u>1160' 1"</u>	Depth set
The surface of tract is owned in fee by <u>John Price and Anna Price</u> Address <u>Big Chimney, W. Va.</u>	6 7/8"	<u>1998'</u>	<u>2023' 1"</u>	Perf. top
Mineral rights are owned by <u>"SAME"</u> Address _____	5 3/16"	<u>6003' 1"</u>	<u>2989' 9"</u>	Perf. bottom
Drilling commenced <u>9-10-40</u>	3			Perf. top
Drilling completed <u>6-25-41</u>	2			Perf. bottom
Date shot <u>Not Shot</u> when deepened _____ Depth of shot _____	Liners Used			Perf. top
Open Flow _____ /10ths Water in _____ Inch				Perf. bottom
_____ /10ths Merc. in _____ Inch				
Volume <u>Dry Hole</u> _____ Cu. Ft.				
Rock Pressure _____ lbs. _____ hrs.				
Oil _____ bbls., 1st 24 hrs.				
Fresh water _____ feet				
Salt water <u>5867-73 - Hole Full</u> _____ feet				

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
See Reverse Side

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Black Lime			5147				
Old Total Depth				5151 SLM			
<u>Drilled Deeper Records:</u>							
Black Lime			5151 SLM	5220			
Grey Sandy Lime			5220	5260			
Black Lime			5260	5400			
Brown Lime			5400	5437			
Gray Lime			5437	5450			
Broken Lime			5450	5620			
Brown Lime			5620	5664			
Dark Lime			5664	5781			
Gray Lime			5781	5839			
Brown Lime			5839	5860			
Sandy Lime			5860	5867 SLM	Salt Water	5867-73	Hole Full
Newburg Sand			5867 SLM	5916 - per sample examination			
Dark Lime			5916	5928			
Grey Lime			5928	6023			
Sand			6023	6033			
Dark Lime			6033	6057			
Gray Sandy Lime			6057	6117			
Grey Lime			6117	6152			
Big Injun Sand			6152	6159 - per sample examination			
Gritty Lime			6159	6167			
Sand			6167	6174			
Lime			6174	6189			
Gritty Lime			6189	6194			
Light Shale			6194	6198			
Red Shale			6198	6326			
Light Shale			6326	6447			
Sandy Lime			6447	6453			
Grey Shale			6453	6528			
Gritty Lime			6528	6552			
Light Shale			6552	6578			
Red Rock			6578	6583			
Light Shale			6583	6630 DLM			
Clinton Sand			6630 DLM	6671 DLM	Gas	6668	smell
TOTAL DEPTH				6671 DLM			

Well abandoned July 12, 1941

(Over)

DEEP WELL

