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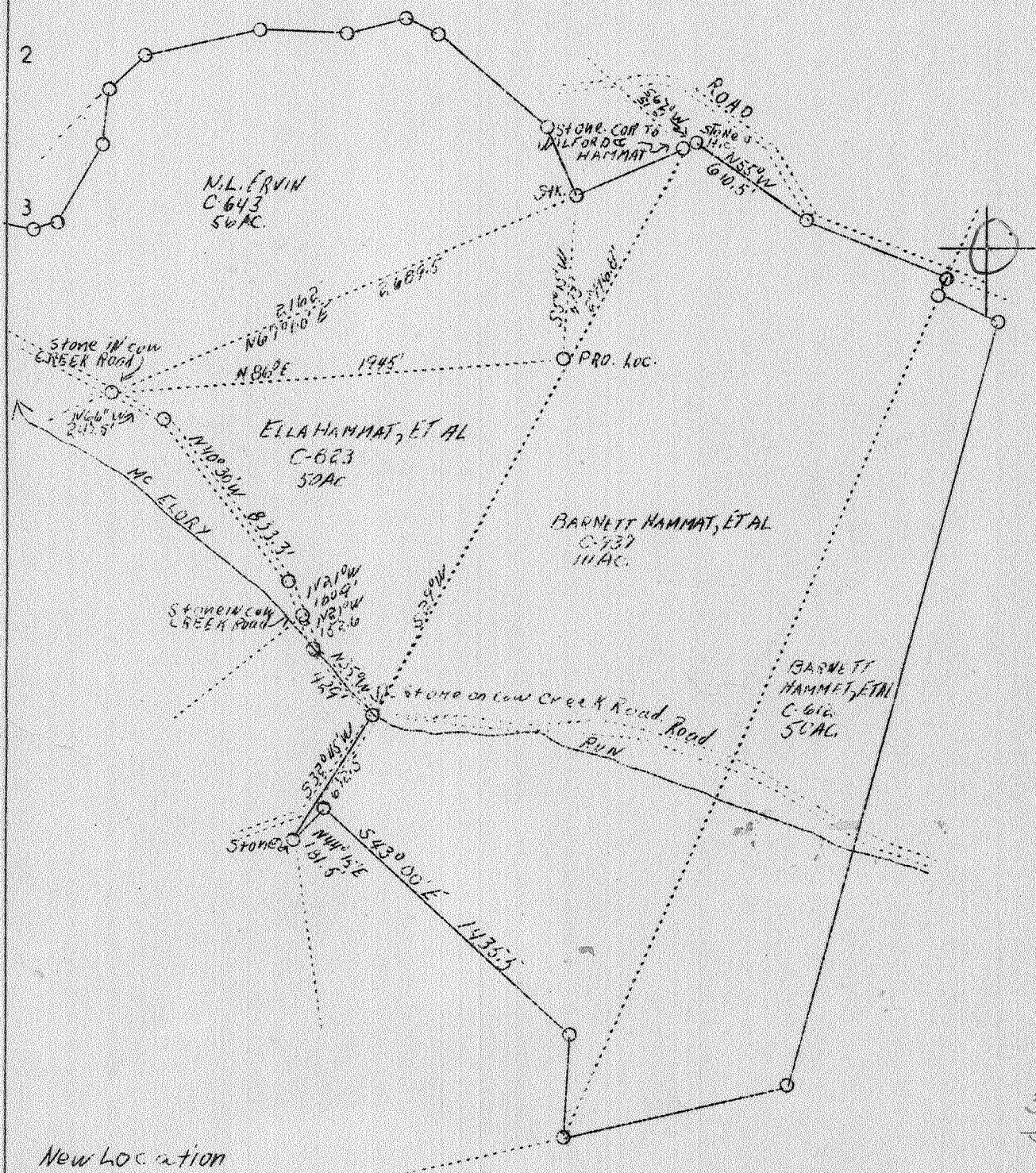
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3

LATITUDE 39° 25'

3022

LONGITUDE 81° 15'



New Location

3.39-S
~~3.73-S~~
 1.11-W
 1.09-W
 6 EC (F6)

Samples 5H (4113-5294)

Company	Columbian Carbon Co.
Address	Box 1240, Charleston, W. Va.
Farm	N. L. Ervin, Ella Hammat, et al & Barnett Hammat, et al
Tract	Acres 267 Lease No. C-643, C-623, C-937 & C-612
Well (Farm) No.	Serial No. GW-416
Elevation (Spirit Level)	966.5
Quadrangle	Marietta EC EC
County	Pleasants District Grant
Engineer	C. A. Branham
Engineer's Registration No.	683
File No.	Drawing No.
Date 5/14/38	Scale 1" = 660'

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

WELL LOCATION MAP
 File No. Pleas-124

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

Denotes one inch spaces on border of original tracing.

Ella Hammat Farm No. 1

3-C 76

Prop Well

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. P10as-124
- Quad.

Oil Well

CASING & TUBING

Company	Columbian Carbon Co.	14	183-5	183-5
Address	Box 1240, Charleston, W. Va.	10-3/4	597-10	597-10
Farm	Ella Hammat, et al ACRES 267	8-5/8	1753-9	1753-9
Location	McElroy's Run	6-5/8	4800	pulled
Well No.	1 (GW-416) ELEV. 965.7 DF	7	4796-5	1061-4
District	Grant - Pleasants County			
Surface & Mineral	Ella Hammat, et al, Rt, Parkersburg, W. Va.			
Commenced	June 5, 1938			
Completed	Oct. 18, 1939			
Shot	1/4/40 - Depth 2920-2932	Coal at:		
Oil	1-1/2 bbls. 1st 24 hrs.	736'		24"
Fresh Water	55' 3-13" bailers per hr.			
Salt Water	925' 1/2-10" bailer per hr.			

Surface Rock	0	20		White Slate	1713	1729	
Shells & Mud	20	45		Lime	1729	1760	
Yellow Sand	45	60	W 55	White Slate	1760	1795	
Blue Shale	60	75		Grey Lime	1795	2000	
Sand	75	100		White Slate	2000	2090	
Red Slate	100	120		Lime	2090	2107	
Grey Sand	120	130		Slate	2107	2115	
Red Rock	130	178		Lime	2115	2135	
Lime	178	205		White Slate	2135	2464	
Sand	205	220		Black Slate	2464	2690	
White Slate	220	275		White Slate	2690	2930	
White Lime	275	298		Lime Shells & Slate	2930	3280	Oil Pay
White Slate	298	310					2920 SLM
Red Rock	310	325		Lime	3280	3370	
Lime	325	338		Slate	3370	3642	
White Slate	338	418		Brown Shale	3642	3787	
Black Slate	418	450		Slate	3787	3911	
White Slate	450	462		Brown Slate	3911	3946	
Big Dunkard Sand	462	534	Sh.Oil 475	Lime	3946	4113	
Grey Slate	534	574		Brown Shale	4113	4154	
Gas Sand	574	614	Sh.Oil 610	Lime Shells	4154	4270	
Black Slate	614	640		Lime	4270	4346	
Grey Lime	640	664		Slate	4346	4469	
Black Slate	664	736		Shale	4469	4673	
Coal	736	738		Black Lime	4673	4726	SLM
White Slate	738	800		Brown Shale	4726	4840	
Dark Sand	800	820		Black Lime	4840	4860	
Slate & Shells	820	830		Shale & Shells	4860	4885	
Sand	830	840		Black Lime	4885	4912	
Black Slate	840	855		Black Shale	4912	5007	SLM
Sandy Lime	855	880	Gas Sh.	Corniferous Lime	5007	5230	SLM
			908 SLM	Oriskany Sand	5230	5311	No Gas Pay
Sand	880	968	SW 925				
Slate	968	1010		Plugged well back to 2950			(415)
Grey Lime	1010	1030					
Black Slate	1030	1050		Total Depth		2950	
Maxton Sand	1050	1078	Gas Sh. 1063				
Black Slate	1078	1088		CEMENT RECORD:			
Grey Sand	1088	1117		3/17/39 Cemented 7" Casing. Ran 20			
Slate	1117	1122		Sacks Cement. Ran 1 Sack Aquagel 4%			
Grey Sand	1122	1145		mixture ahead of cement.			
Big Lime	1145	1190		3/20/39 Recemented with 50 Sacks Cement.			
Big Injun	1190	1263		All old cement bailed out - had not set.			
Black Slate	1263	1269					
Squaw Sand	1269	1310		Pat Patterson, Cementer, Halliburton			
Grey Slate	1310	1380		Oil Well Cementing Co.			
Lime Shells & Slate	1380	1675	Gas Sh. 1550				
Brown Shale - Coffee Sh.	1675	1690					
Borea Grit	1690	1713	Gas Sh. 1695				

5007
966
4041

5230
966
4264

Belmont District, Pleasants County, W. Va.

By Columbian Carbon Co., Charleston, W. Va.

Located 1.11 mi. W. of 81° 15' and 3.43 mi. S. of 39° 25' - EC - Marietta Quadrangle;
1 mi. S. W. of Belmont.

Elevation, 966.5' L.

Permit Pleas-124.

Drilling commenced June 5, 1938; completed Oct. 18, 1939.

Shot Jan. 4, 1940, depth 2920-2932'.

Oil, 1½ bbls., first 24 hrs.

Coal at 736-738'.

Samples were examined for the interval 4113 to 5301' (by J. H. C. Martens).

Top. Bottom. Thickness.

1145 -	1190	45	Big Lime
1190 -	1263	73	Big Injun Sand
1675 -	1690	15	Brown shale
1690 -	1713	23	Berea Grit

DEVONIAN SHALES, 3294 FEET

1713 -	4113	2400	No samples
4113 -	4190	77	Shale, medium- to dark-gray, slightly calcareous; contains a few fossil shells; many slickensided shale fragments 4119-4130' and a few below that
4190 -	4278	88	Shale, gray; mostly medium-gray but includes some dark-gray and grayish-green; also some micaceous siltstone
4278 -	4292	14	Shale, dark-gray
4292 -	4353	61	Shale, medium-gray, partly silty
4353 -	4485	132	Shale, medium-gray to dark-gray, partly silty
4485 -	4500	15	Shale, very dark gray to black
4500 -	4587	87	Shale, dark-gray
4587 -	4689	102	Shale, very dark gray to black
4689 -	4835	146	No samples
4835 -	4909	74	Shale, dark-gray, slightly calcareous
4909 -	5007	98	Shale, black, slightly calcareous (SLM at 5006½')

HUNTERSVILLE CHERT, 223 FEET

5007 -	5016	9	Limestone, light-brown, very cherty; contains much light-gray translucent chert; a little biotite-rich siltstone at contact with overlying shale
5016 -	5049	33	Limestone, light-brown, very cherty; contains much light-gray translucent chert
5049 -	5083	34	Limestone, brown, very cherty; mostly a little darker than interval above; contains a little dolomite
5083 -	5158	75	Limestone, brown, very cherty, slightly dolomitic, mostly contains small amounts of silt or very fine sand; slight traces of glauconite in a few samples
5158 -	5162	4	Limestone, brown, cherty, and sandy; contains a little glauconite
5162 -	5175	13	Limestone, brown, cherty; contains very small amounts of silt and dolomite
5175 -	5182	7	Limestone, brown, cherty, silty, and glauconitic; contains a little dolomite
5182 -	5230	48	Limestone, light-brown and gray, very cherty; contains a little dolomite and slight traces of silt and glauconite; at the bottom is a very thin sandy streak with large amount of glauconite

(OVER)

Top. Bottom. Thickness.

ORISKANY SANDSTONE, 81 FEET

5230 - 5252	22	Sandstone, white to light-gray, fine, slightly calcareous (SLM at 5230')
5252 - 5301	49	Sandstone, white to light-gray, fine, slightly to moderately calcareous; samples mostly contain some shale cavings and much rusty steel (SLM at 5301')
5301 - 5311	10	No sample; reported as sand.
5311		Total depth.