

Latitude $38^{\circ} 25'$
 ϕ 75
 0015 NGP
 .155
 .736
 77W
 110J
 TOPO LOC
 Longitude $07^{\circ} 45'$

- Fracture Before 6/5/27
- New Location
- Drill Deeper
- Redrill
- Abandonment

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

PROVEN ELEVATION USGS ELEV. 719 ON PT. 35 S.E. OF LOC

Company PACE-BOWER CONSTRUCTION CO.
 Address NELSON BLDG, CHARLESTON, W.VA.
 Farm MCCOWN FARM PART OF 300 AC UNIT
 Tract _____ Acres 50 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 991.0
 Quadrangle SAINT ALBANS EC
 County KANAWHA District UNION
 Engineer N.L. Sifton
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date 9-8-67 Scale 1" = 400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. KAN-2193

+ Denotes location of well on United States 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle St. Albans

WELL RECORD

Oil or Gas Well Dry (KIND)

Permit No. KAN. 2193

Company Pace-Bower Const. Company
Address 305 Nelson Bldg., Charleston, W.Va.
Farm McCown Acres 50
Location (waters) Howard Fork
Well No. 1 Elev. G.L. 991
District Union County Kanawha
The surface of tract is owned in fee by Milbert McCown,
4280 Washington St., W. Charleston et al.
Mineral rights are owned by same as above

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13-3/8	29	29	
10			Size of
8-5/8	2048	200	
6 3/8			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Address _____
Drilling commenced 10/29/67
Drilling completed 11/7/67
Date Shot not shot From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume none Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED not acidized
WELL FRACTURED not fractured

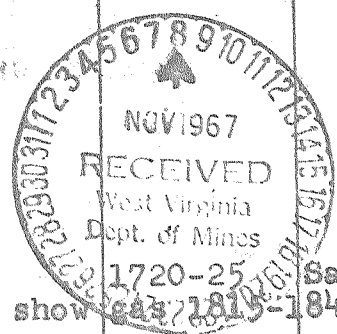
CASING CEMENTED 13-3/8 SIZE 29 No. Ft. 10/29/67
w/25 sacks; 8-5/8-2048 w/100 sacks 11/
COAL WAS ENCOUNTERED AT _____ FEET _____ INC
_____ FEET _____ INCHES _____ FEET _____ INC
_____ FEET _____ INCHES _____ FEET _____ INC

RESULT AFTER TREATMENT _____

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
LITHOLOGY BASED ON GAMMA RAY - ALL TOPS K.B. MEASUREMENTS							
Sandstone			0	34		70	hole damp
Siltstone and Shale			34	189			
Sandstone			189	205			
Shale			205	233			
Sandstone			233	254			
Siltstone and Shale			254	488			
Sandstone			488	536			
Shale			536	600			
Sandstone			600	634			
Siltstone and Shale			634	743			
Sandstone			743	904			
Shale			904	917			
Sandstone			917	938			
Shale			938	978			
Sandstone			978	1008			
Shale			1008	1082			
Sandstone			1082	1124			
Siltstone and Shale			1124	1258			
Sandstone			1258	1291			
Shale			1291	1348			
Sandstone			1348	1522			
Shale			1522	1532			
Sandstone			1532	1554			
Shale			1554	1732			
Sandstone			1732	1800			
Little Lime			1800	1860			
Big Lime			1860	1988			
Siltstone			1988	2000			



Good show Salt Water 1845-ble

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Big Injun Shale			2000	2044			
Coffee Shale			2044	2458			
Berea Shale			2458	2477			Porosity
Marcellus			2477	2489			
Onondaga			2489	4852			
Oriskany			4852	4890			
Limestone, Dolomite, Anhydrite			4890	4982			
Newburg			4982	4991			
Dolomite and Anhydrite			4991	5704	No gas or water		
			5704	5720			
			5720	5740			
T.D. Logger	5740						
T.D. Driller	5730						

DEPARTMENT OF STATE Date November 8, 1910
 APPROVED Pace-Bower Construction Co.
 By J. A. Pace - vice president
 (Title)



WELL RECORD FORM 09-10, MUST BE SUBMITTED TO OBTAIN RELEASE OF WELL UNDER BOND.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

NOTICE OF PROPOSED LOCATION OF OIL AND GAS WELL

To THE DEPARTMENT OF MINES,
Charleston, W. Va.

Milbert McCown, et al.
4280 Washington St., W.
Charleston, West Virginia

Pace-Bower Construction Company
305 Nelson Bldg., Charleston, W. Va.

Same as above

October 27, 1967

Same as above

Union District

Kanawha County

Well No. 1

McCown Farm
Elevation 991.0 Acres 50 (Unit of 300 acs.)

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated January 23, 1967, made by Milbert McCown, et al., to Pace-Bower Construction Company, and recorded on the 23rd day of May, 1967, in the office of the County Clerk for said County in Book 165, page 559.

The enclosed plat was prepared by a competent engineer and shows the proposed location of a well to be drilled for oil and gas by the undersigned well operator on the farm and in the Magisterial District and County above named, determined by survey and courses and distances from two permanent points, or land marks.

The undersigned well operator is informed and believes there are no coal operators operating beds of coal beneath said farm or tract of land on which said well is located, or within 500 feet of the boundaries of the same, who have mapped their workings and filed their maps as required by law, excepting the coal operators or coal owners (if any) above named as addressees.

The above named coal operators or coal owners (if any) are notified that any objections they may desire to make to such proposed location, or which they are required to make by Section 3 of said Code, if the drilling of a well at said proposed location will cause a dangerous condition in or about their respective coal mines, must be received by, or filed with the Department of Mines within ten days from the receipt of a copy of this notice and accompanying plat by said Department. Said coal operators are further notified that forms for use in making such objections will be furnished to them by the Department of Mines promptly on request and that all such objections must set forth as definitely as is reasonably possible the ground or grounds on which such objections are based and indicate the direction and distance the proposed location should be moved to overcome same.

(The next paragraph is to be completed only in Department's copy.)

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address day before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,

PACE-BOWER CONSTRUCTION COMPANY

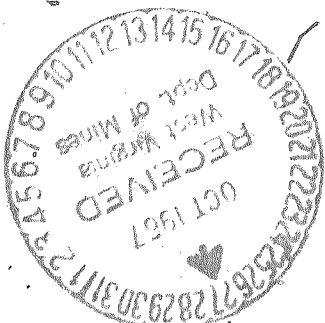
(Sign Name) A. A. Pace
A. A. Pace WELL OPERATOR Vice-President

Address 305 Nelson Building STREET

Charleston CITY OR TOWN

West Virginia 25301 STATE

STATE



*Section 3 If no such objections be filed or found by the department of mines, within said period of ten days from the receipt of said notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a drilling permit reciting the filing of such plat, that no objections have been made by the coal operators to the location, or found thereto by the department, and that the same is approved and the well operator authorized to proceed to drill at said location.

BLANKET BOND

KAN-2193 PERMIT NUMBER