

COLUMBIA NATURAL RESOURCES  
 P. O. BOX 1757  
 ELKINS, WV 26241

Divis. **74** **(WELL)**  
 Record of well No. **536 604859** on **Effie F. Stahl** Farm **174** Acres  
**Buckhannon, W. Va.** Field **8** District **Garrett** County **Maryland** State  
 Rig Commenced **July, 25,** 1955, Completed **July, 30,** 1955  
 Drilling Commenced **August, 9,** 1955, Completed **November, 18,** 1955  
 Contractor **Union Drilling, Inc.** Address **Washington, Pennsylvania**  
 Driller's Name **Royal Varner** and **Alfred Kahlbaugh**

CASING AND TUBING RECORD

	Conductor	18"	10"	8 1/4"	7"	6 5/8"	5 3/16"	4"	3"		
Used in Drig.	-	87'9"	402'7"	1685'1"	3525'6"						
Left in well	-	87'9"	402'7"	1685'1"	3525'6"						

PACKER RECORD

SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Cu. Ft.	Volume After Cu.
						Top	Bottom		
<b>No Packer. Pipe Cemented.</b>									

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.					6 Hour R. P.	Max. R. P.	H
						1	5	10	30	60			
11/21/55	24/10	W.	2 1/2"	240,002	Chert	30	45	59	110	190	510		

TOTAL INITIAL OPEN FLOW

240,002

CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
				<b>Ran the followings:</b>
Clay	0	12	12	87'3" of 12" Pipe.
Slate	12	55	43	399'4" of 10" Pipe.
Lime	55	80	25	1672'1" of 8 5/8" Pipe.
Slate	80	202	122	3499'8 3" of 7" O.D. Pipe.
Slate & Lime	202	453	251	
Lime	453	780	327	Water at 35'. 6 Bailleurs per hour.
Slate & Shells	780	1395	615	
Lime, Broken	1395	1580	185	Dowell Fracturing Treatment:
Slate & Shells	1580	1660	80	Dated 11/4/55. Chert Sand 3493-3566.
Lime	1660	1700	40	Ran 2" Tubing. Used 143 bbl. Oil to fill
Slate & Shells	1700	2096	396	hole. Used 2000 gal. gel, 3000# Sand
Lime	2096	2272	176	40-60 mesh. Formation broke at 1800'
Slate & Shells	2272	2562	290	Max. pump. press. 2750#. Recovered 100 o/
Lime	2562	2677	115	of oil. Before Frac. 147,586 C.F.
Shale	2677	2849	172	After Frac. 240,002 C.F. Used 10 gal
Slate & Shells	2849	2886	37	Freslo breaker fluid.
Lime, Light	2886	2926	40	No Packer. Used Donut at surface to
Slate & Shells	2926	3399	473	hold tubing.
Lime, Dark	3399	3411	12	
Lime, White	3411	3440	29	
Slate & Lime & Shells	3440	3465	25	
Lime, Onondaga	3465	3493	28	
Sand, Chert	3493	3566	73	Gas at 3558. 70/10 W-1 1/2".
TOTAL DEPTH:	3566			

Examined above information and measurements and found to be correct by

Examined and Approved by

*Union Drilling, Inc.* Contractor

Field Superintendent

NOTE - The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of the bill for drilling. All formations and known sands must be given by their proper name, with steel line measurements, and under the head of "Remarks" must be recorded what sand and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.

WEST VIRGINIA AND ALLEGHENY GAS COMPANY  
Company

Division # 4  
 Record of well No. 536 on Effie F. Stahl Farm 17 1/2 Acres  
 Buckhannon, W. Va. Field # 8 ~~West Virginia~~ District Garrett County Maryland State  
 Rig Commenced July, 25, 1955, Completed July, 30, 1955  
 Drilling Commenced August, 9, 1955, Completed November, 18, 1955  
 Contractor Union Drilling, Inc. Address Washington, Pennsylvania  
 Driller's Name Royal Varner and Alfred Kahlbaugh

CASING AND TUBING RECORD

	Conductor	13"	10"	8 1/4"	7"	6 5/8"	5 3/16"	4"	3"		
Used in Drig.	-	87'9"	402'7"	1685'1"	3525'6"						
Left in well	-	87'9"	402'7"	1685'1"	3525'6"						

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SHOOTING RECORD

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Slate & Shells	2926	3399	473	hold tubing.
Lime, Dark	3399	3411	12	
Lime, White	3411	3410	20	

State of Maryland  
DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES  
The Johns Hopkins University  
Baltimore 18, Maryland

APPLICATION FOR PERMIT TO DRILL OIL OR GAS WELL  
(Applications must be submitted in triplicate)

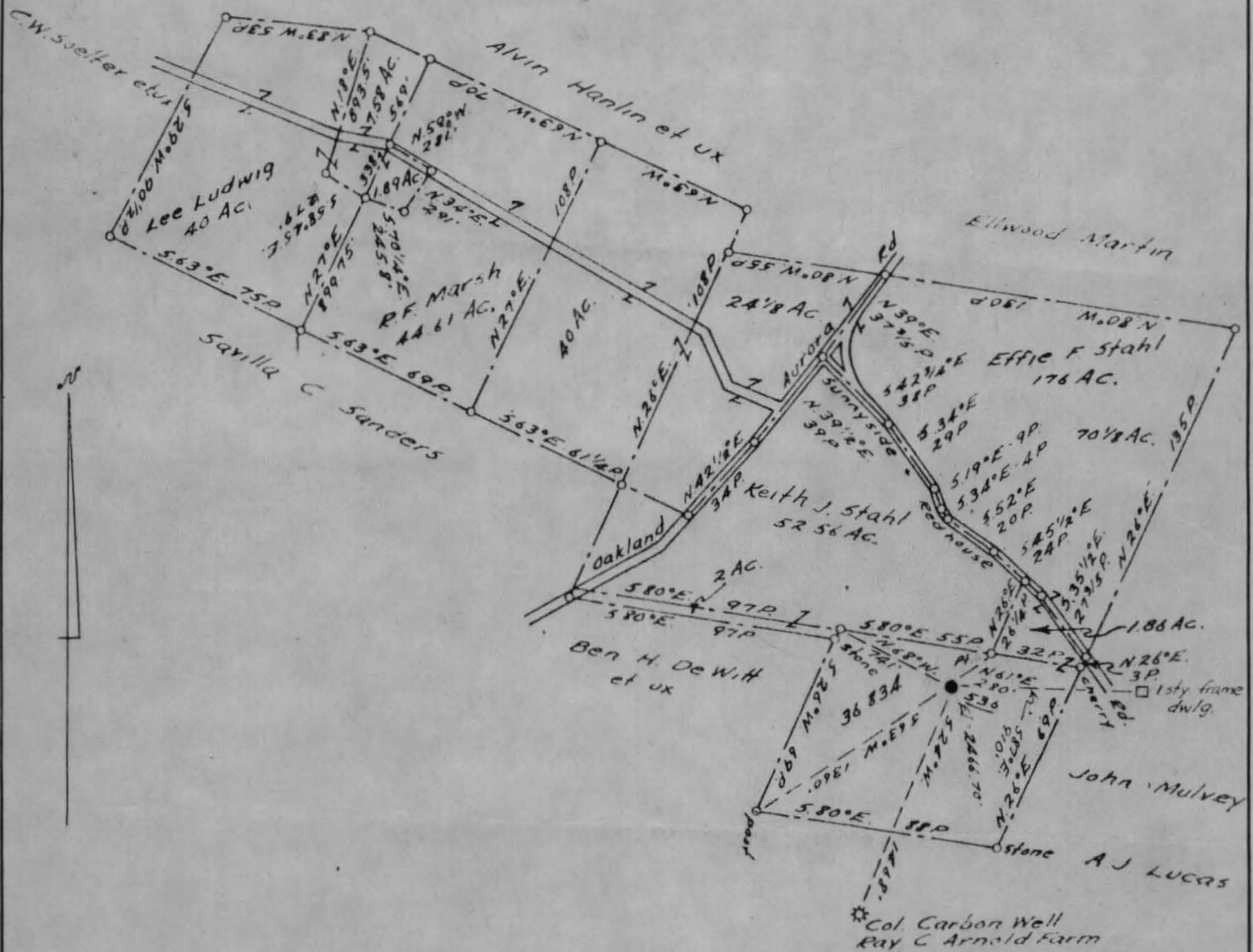
OWNER <u>CUMBERLAND AND ALLEGHENY GAS CO.</u>	LOCATION OF WELL _____
STREET or R.F.D. <u>800 UNION TRUST BUILDING</u>	COUNTY <u>Garrett</u>
POST OFFICE <u>PITTSBURGH 19, PENNA.</u>	NEAREST POSTOFFICE <u>Oakland, Maryland</u>
	Distance from Post Office <u>6.5 Miles</u>
	Direction from Post Office <u>Southwest</u>
<b>PERMIT TO DRILL WELL</b>	
NOT TO BE FILLED IN BY APPLICANT	APPROXIMATE DEPTH OF WELL (feet) <u>4,000</u>
PERMIT NO. <u>17 (seventeen)</u>	METHOD OF DRILLING <u>Cable Tool</u>
The permit is herewith granted subject to the conditions stipulated.	DEEPEST GEOLOGIC FORMATION WELL WILL BE DRILLED <u>Oriskany</u>
<u>John T. Singmaster</u> Director	DISTANCE OF WELL LOCATION TO NEAREST BUILDING (feet) <u>910</u>
Date <u>June 16, 1955</u>	NUMBER OF SHIFTS PER DAY _____
Special conditions that may apply:	LICENSED DRILLER IN CREW OF EACH SHIFT
	<u>NAME</u> <u>ADDRESS</u>
	_____
	_____
	_____
	These names may be supplied later but before drilling begins

The names and post office addresses of the owners of the tracts of land included on the plat or map accompanying the application are to be given below.

Effie Stahl, R. D. 2, Oakland, Maryland	Ben H. DeWitt, R. D. 2, Oakland, Md.
Keith J. Stahl, R. D. 2, Oakland, Maryland	Savilla C. Sanders, R. D. 2, Oakland, Md.
Lee Ludwig, Route 2, Oakland, Maryland	C. W. Soelter, R. D. 2, Oakland, Md.
Richard F. Marsh, Oakland, Maryland	Alvin Hanlin, R. D. 2, Oakland, Md.
Lawrence G. Flowers, Oakland, Maryland	
Richard Marsh, Oakland Maryland	
A. J. Lucas, R. D. 2, Oakland, Maryland	
John Mulvey, R. D. 2, Oakland, Maryland	
Ellwood Martin, R. D. 2, Oakland Maryland	

NOTE

A BOND FOR \$2,500 PAYABLE TO THE STATE OF MARYLAND MUST ACCOMPANY THE APPLICATION  
THIS APPLICATION FORM MUST BE FILLED OUT WITH TYPEWRITER OR IN BLOCK LETTERS



WELL Location By  
 Cumberland and Allegheny Gas Co.  
 Dist. #8 Redhouse, Garrett County, Maryland

Maryland State Coordinates  
 East - 104.7  
 North - 551.2

Plat Showing Proposed Location of  
 GAS WELL  
 State of Maryland