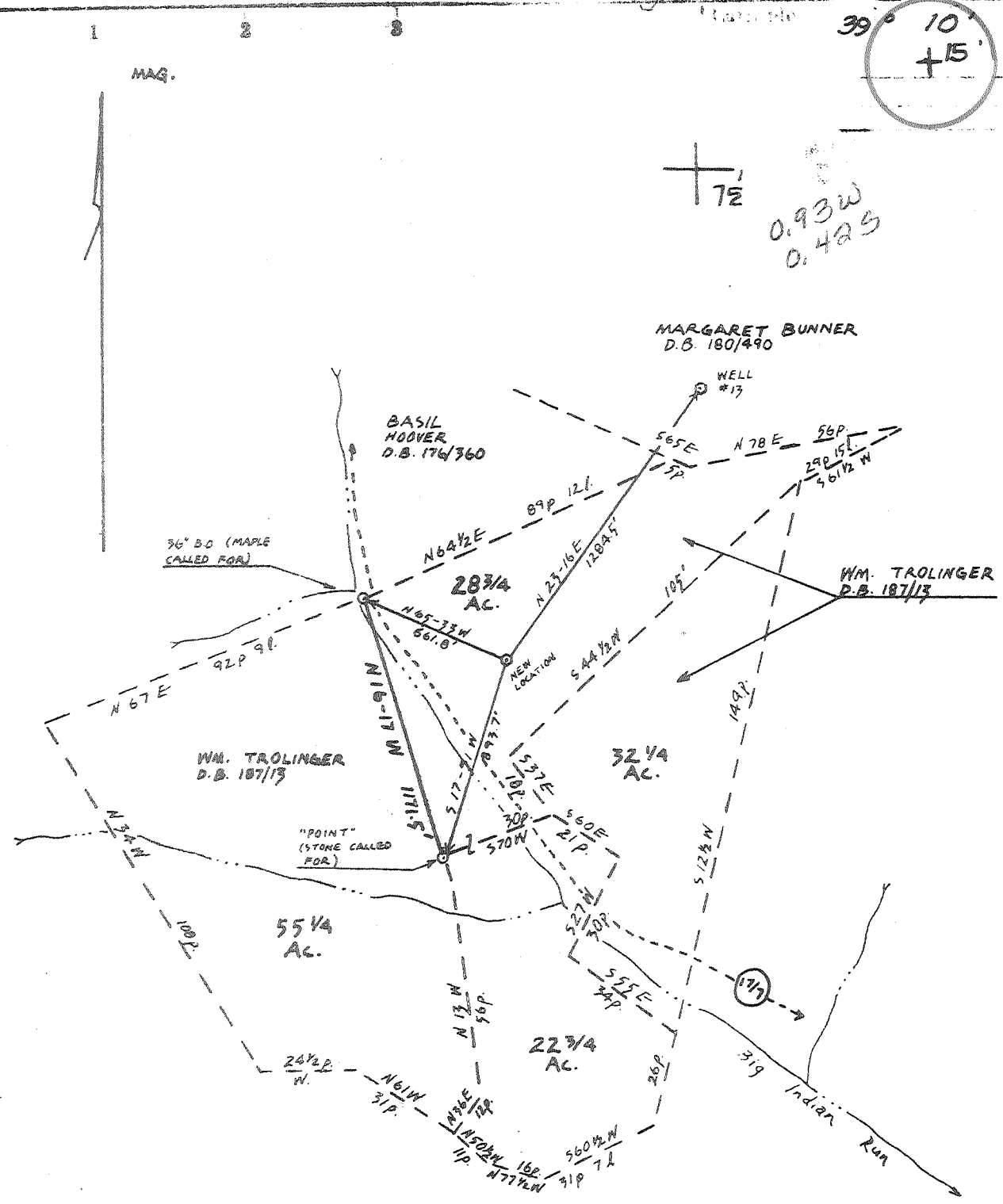


39° 10' + 15'



*William Ambrose*

- Contour
- Elevation
- New Location
- Well Deeper
- Indorment

Source of Elevation WELL #13  
 I, the undersigned, hereby certify that this map is a true and correct copy of the original and shows all the information required by the regulations of the oil and gas commission of the State of West Virginia.  
 Minimum accuracy of 1:200

Company: PAGE P. BLAKEMORE  
 Address: RTE 4 MARIETTA OH.  
 Lessee: TROLINGER (G.Y. REHRDAD)  
 Section: 02 Acres: 28 3/4 Lease No. \_\_\_\_\_  
 Permit No. A-1 Serial No. \_\_\_\_\_  
 Elevation (Spot Level): 978.8  
 Elevation (Spot Level): 151.037393  
 Locality: HARRISVILLE WV  
 Land: RITCHIE Mineral: MURPHY  
 Surveyor: WILLIAM AMBROSE  
 Surveyor's Registration No. 568  
 Date: 22 JUNE 79 Drawing No. \_\_\_\_\_  
 Scale: 1" = 40 P.

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

WELL LOCATION MAP  
 FILE NO. **47-085-4383**

Denotes location of well as located. Solid lines represent original survey lines and bearings. Dashed lines represent original tracing.  
 Denotes one inch spaces on grid. Line is original tracing.

OCT 9 1979

6-6 Mahone (Smithville) (124)



WR-35

RECEIVED  
SEP 22 1987

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

Date June 17, 1987  
Operator's Well No. Trolinger #A-1  
Farm Trolinger  
API No. 47 - 085 - 4383

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY  
WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil     / Gas x / Liquid Injection     / Waste Disposal     /  
(If "Gas," Production x / Underground Storage     / Deep     / Shallow x /)

LOCATION: Elevation: 978.8 Watershed Elm Creek  
District: Murphy County Ritchie Quadrangle Harrisville

COMPANY Constitution Petroleum Co.

ADDRESS Rt. 4 Box 217, Marietta, Ohio

DESIGNATED AGENT Clarence Cunningham

ADDRESS Rt. 1 Box 189, Cairo, WV.

SURFACE OWNER William Trolinger

ADDRESS Harrisville, WV.

MINERAL RIGHTS OWNER G. Y. Rexroad

ADDRESS Harrisville, WV.

OIL AND GAS INSPECTOR FOR THIS WORK Paul Goodnight  
ADDRESS Smithville, WV.

PERMIT ISSUED 9/11/79

DRILLING COMMENCED 9/11/79

DRILLING COMPLETED 9/13/79

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED CN

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	415	415	95 sks.
7			
5 1/2			
4 1/2	3035	2968	NA
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 2791-2802 feet

Depth of completed well 3035 feet Rotary x / Cable Tools    

Water strata depth: Fresh NA feet; Salt NA feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 2791-2802 feet

Gas: Initial open flow     Mcf/d Oil: Initial open flow     Bbl/d

Final open flow 25 Mcf/d Final open flow     Bbl/d

Time of open flow between initial and final tests NA hours

Static rock pressure NA psig (surface measurement) after NA hours shut in

(If applicable due to multiple completion--)

Second producing formation     Pay zone depth     feet

Gas: Initial open flow     Mcf/d Oil: Initial open flow     Bbl/d

Final open flow     Mcf/d Oil: Final open flow     Bbl/d

Time of open flow between initial and final tests     hours

Static rock pressure     psig (surface measurement) after     hours shut in

SEP 28 1987

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforations 2791-2802  
 Frac data unavailable

15 holes

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sandstone & Shale			0	500	
Sandstone & Shale			500	1000	
Sandstone & Shale			1000	1600	
Shale			1600	1676	
Maxon			1676	1724	
Shale			1724	1756	
Little Lime			1756	1791	
Shale			1791	1822	
Big Lime			1822	1924	
Shale			1924	1925	
Keener			1925	1956	
Shale			1956	1957	
Snadstone			1957	1992	
Shale			1992	1998	
Big Injun			1998	2039	Approximately 100,000 natural
Shale			2039	2048	
Squaw			2048	2058	
Shale			2058	2142	
Wier			2142	2212	
Shale			2212	2405	
Berea			2405	2418	
Shale			2418	2791	
Gordon			2791	2802	
Shale			2802	3035	

to

**RECEIVED**  
 SEP 22 1987  
 DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Constitution Petroleum Co.  
 Well Operator

By: Clarence Cunningham

Date: 9/18/87

**Note: Regulation 8.02(f) provides as follows:**  
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED 40

SEP 11 1979

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE 10 SEPTEMBER 1979

Surface Owner WILLIAM TROLINGER

Company PAGE P. BLAKEMORE

Address HARRISVILLE, W. VIRGINIA

Address RT 4 MARIETTA, OHIO

Mineral Owner G. Y. RFXROAD

Farm TROLINGER Acres 28.5

Address HARRISVILLE WEST VIRGINIA

Location (waters) FLM CREEK

Coal Owner NONE

Well No. A-1 Elevation 978.8

Address NONE

District MURPHY County RITCHIE

Coal Operator NONE

Quadrangle HARRISVILLE

Address NONE

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 5-11-80

Paul Goodnight

INSPECTOR TO BE NOTIFIED  
PH: 477-3660 ADDRESS Smithville, W. Va.

*Robert K. [Signature]*

Deputy Director - Oil & Gas Division

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 27 NOVEMBER 1978 by CAMERON SYNDICATE made to CONSTITUTION PETROLEUM and recorded on the 27 day of NOV 1978, in RITCHIE County, Book 52 Page 265

NEW WELL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

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,  
(Sign Name) PAGE P. BLAKEMORE  
Well Operator

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey, Address  
P. O. Box 879  
Morgantown, W. Va. 26505

ROUTE 4 Street  
MARIETTA, OHIO m, k City or Town  
State

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

BLANKET BAND

THIS IS AN ESTIMATE ONLY  
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO  DRILL  DEEPEN  FRACTURE-STIMULATE  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME FOX DRILLING CO NAME CLARENCE CUNNINGHAM  
 ADDRESS GLENVILLE, WEST VIRGINIA ADDRESS HARRISVILLE, W. VIRGINIA  
 TELEPHONE 462-7353 TELEPHONE 869-3602  
 ESTIMATED DEPTH OF COMPLETED WELL: 3000 ft. ROTARY  CABLE TOOLS   
 PROPOSED GEOLOGICAL FORMATION: OHIO SHALE  
 TYPE OF WELL: OIL  GAS  COMB.  STORAGE  DISPOSAL   
 RECYCLING  WATER FLOOD  OTHER

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT-FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	400 Ft	400 ft.	Cemented to surface
7			
5 1/2			
4 1/2	<del>XXXXXX</del>	3000 ft or ID	Cemented 250 sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 FEET SALT WATER 1300 FEET  
 APPROXIMATE COAL DEPTHS No coal encountered in drilling  
 IS COAL BEING MINED IN THE AREA? NO BY WHOM? NO ONE

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
For Coal Company  
\_\_\_\_\_  
Official Title