

FILE NO. 725  
 DRAWING NO. 1  
 SCALE 1"=500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION U.S. D.O.I. 161/JEA 1963

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) \_\_\_\_\_  
 R. P. E. 3994 L. L. S. \_\_\_\_\_

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8-78)



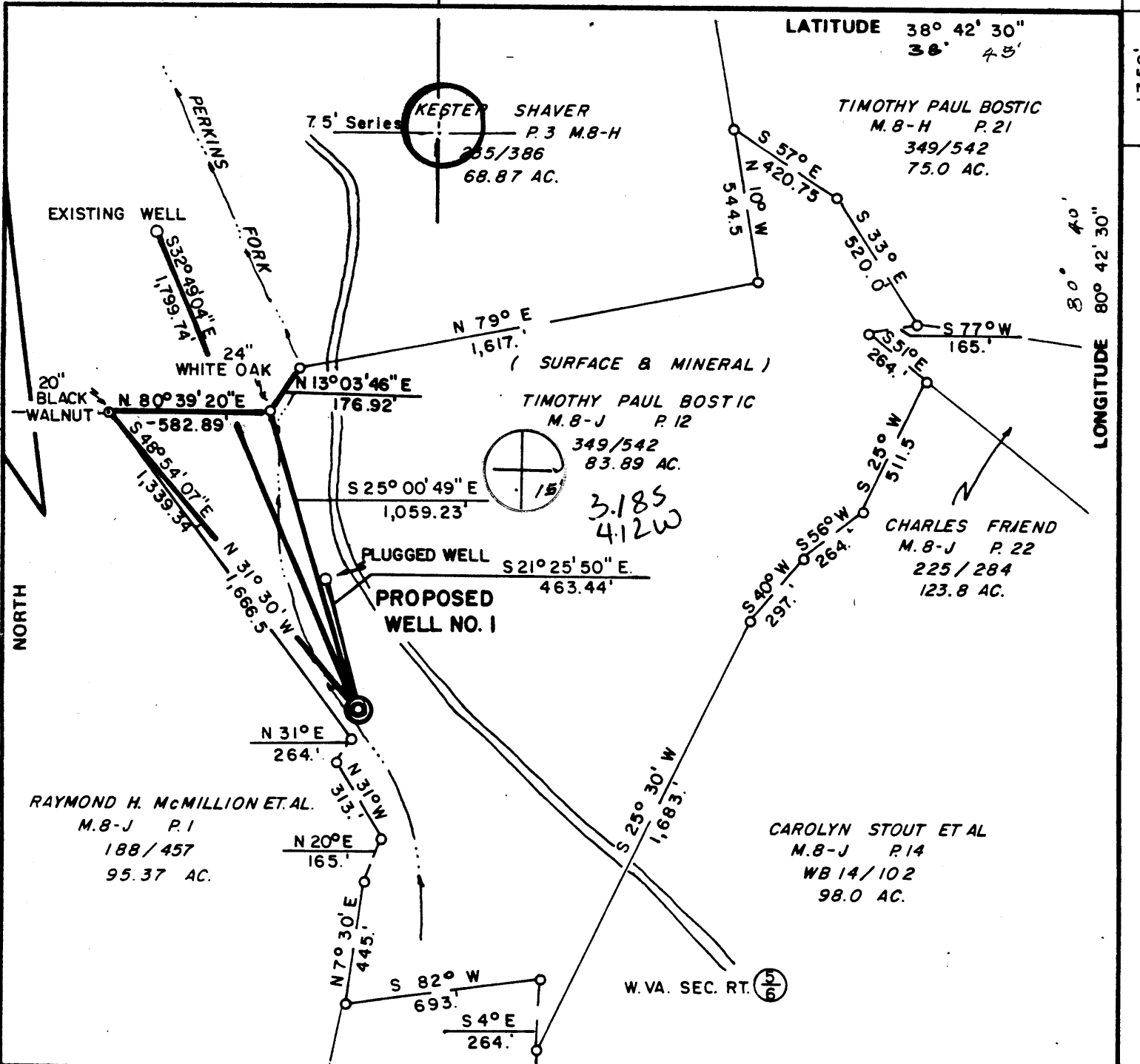
DATE JULY, 1981  
 OPERATOR'S WELL NO. one  
 API WELL NO. 47-007-1709  
 STATE COUNTY PERMIT

Department of Mines  
 Oil & Gas Division

*Corrected Plat*

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS", PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_)  
 LOCATION: ELEVATION 919 WATER SHED PERKINS FORK  
 DISTRICT OTTER COUNTY BRAXTON  
 QUADRANGLE SUTTON 7.5' Series 15' NW  
 SURFACE OWNER TIMOTHY PAUL BOSTIC ACREAGE 83.89  
 OIL & GAS ROYALTY OWNER TIMOTHY PAUL BOSTIC LEASE ACREAGE 83.89  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Beander ESTIMATED DEPTH 5250'  
 WELL OPERATOR MERT DEVELOPMENT INC. DESIGNATED AGENT JERRY POLING  
 ADDRESS RT. 8 BOX 336 AA FAIRMONT, W. VA. 26554 ADDRESS RT. 8 BOX 336 AA FAIRMONT, W. VA. 26554

MAY 17 1981

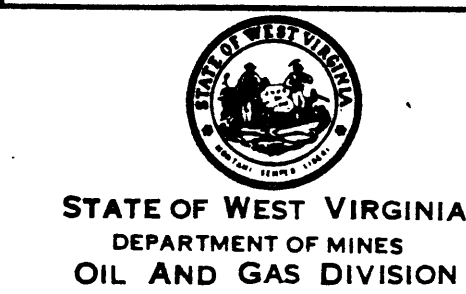


FILE NO. 725  
 DRAWING NO. 1  
 SCALE 1" = 500  
 MINIMUM DEGREE OF ACCURACY 1" = 200  
 PROVEN SOURCE OF ELEVATION B.M. U.S. DEPT. OF INT. 161 JEA 1963

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) \_\_\_\_\_  
 R.P.E. 3994 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)  
 WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 919 WATER SHED PERKINS FORK  
 DISTRICT OTTER COUNTY BRAXTON  
 QUADRANGLE SUTTON 7.5' Series 415' NW  
 SURFACE OWNER TIMOTHY PAUL BOSTIC ACREAGE 83.89  
 OIL & GAS ROYALTY OWNER TIMOTHY PAUL BOSTIC LEASE ACREAGE 83.89  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5250'  
 WELL OPERATOR MERT DEVELOPMENT INC. DESIGNATED AGENT JERRY POLING  
 ADDRESS RT. 8 BOX 336 AA FAIRMONT, W.VA. 26554



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE JULY, 19 81  
 OPERATOR'S WELL NO. ONE  
 API WELL NO. 47-007-1709  
 STATE 47 COUNTY 007 PERMIT 1709  
 AUG 11 1981



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

FEB 21 1983

WELL RECORD

Quadrangle Sutton 7.5'

Permit No. 47-007-1709

Rotary x Oil \_\_\_\_\_  
Cable \_\_\_\_\_ Gas x  
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind)

Company MERT Development Inc  
Address Fairmont, WV  
Farm Bostic Acres 84  
Location (waters) Perkins Fork  
Well No. One Elev. 919  
District Otter County Braxton  
The surface of tract is owned in fee by \_\_\_\_\_  
Paul Bostic  
Address \_\_\_\_\_  
Mineral rights are owned by Paul Bostic  
Address \_\_\_\_\_  
Drilling Commenced 9-30-81  
Drilling Completed 10-6-81  
Initial open flow 26m cu. ft. \_\_\_\_\_ bbls.  
Final production 2 cu. ft. per day \_\_\_\_\_ bbls.  
Well open 4 hrs. before test 1250 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. <u>13 1/2" 11 3/4"</u>	60	60	CTS
<u>9 5/8"</u>			
<u>8 5/8"</u>	979	979	CTS
<u>7"</u>			
<u>5 1/2"</u>			
<u>4 1/2"</u>		4644	1275' fillup
<u>3"</u>			
<u>2"</u>			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perforate Benson (4490-4484) with 14 holes Frac with 750,000 SCF N<sub>2</sub>

Coal was encountered at 70-73, 200-202 Feet \_\_\_\_\_ Inches  
Fresh water 50' 100' Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand Benson Depth 4470-4484

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	• Remarks
Sh/Sd			0	50		
Sand			50	70		
Coal			70	73		
Sand			73	90		
RR			90	100		
Sand			100	145		2" @ 100' (H <sub>2</sub> O)
RR			145	200		
Coal			200	202		
RR/Shale			202	285		
Sand/Shale			285	330		
Shale			330	430		
Sand			430	775		
Sh/Sand			775	1020		
Shale			1020	1505		
RR			1505	1615		
Sand/Shale			1615	1695		
L.Lime			1695	1750		
Shale			1750	1760		
B.Lime			1760	1970		
S.Shale			1970			
Shale			2790	2770		gas@ 2030' 22/10-1/2" w/w
S.Shale			2770	2890		gas@ 2553' 24/10=1/2" w/w
Shale			2890	2950		

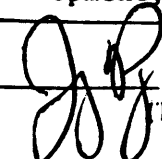
(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	• Remarks
Sand/Shale			2950	3375		
Shale			3375			
Sd/Sh			4045	4180		
Shale			4180	4345		
Sand/Shale			4345	4465	gas@ 4309'	12/10= $\frac{1}{2}$ w/w
Benson			4465	4475		
Sd/Sh			4475	4530		
Shale			4530	4960		
Rd/Gy Sand			4960	4970		
Shale			4970	5070		
Dark Sand			5070	5085		
Sd/Sh			5085	5202	gas@ 5202	12/10= $\frac{1}{2}$ w/w
				TD.		

Date October 28, 1981

APPROVED MERT Development, Inc. Owner

By  (Title) Geologist

Date: July 22, 1981  
Farm  
Name: Bostic  
API No. 47 - 007 1709  
State County Per

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil \_\_\_ / Gas X /  
(If "Gas", Production \_\_\_ / Underground Storage \_\_\_ / Deep \_\_\_ / Shallow X /  
LOCATION: Elevation: 919 Watershed: Perkins Fort  
District: Otter County: Braxton Quadrangle: Sutton

WELL OPERATOR MERT Development, Inc. DESIGNATED AGENT Jerry Poling  
Address Route 8 - Box 336-AA Address Route 8 - Box 336-AA  
Fairmont, West Virginia 26554 Fairmont, West Virginia 26554

OIL & GAS ROYALTY OWNER T. Paul Bostic  
Address Riffle  
West Virginia

COAL OPERATOR  
Address

ACREAGE 84  
SURFACE OWNER T. Paul Bostic  
Address Riffle  
West Virginia  
ACREAGE 84

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name T. Paul Bostic  
Address  
Name  
Address

RECEIVED  
JUL 23 1981

FIELD SALE (IF MADE) TO:  
Name Columbia Gas Transmission Corp.  
Address Charleston  
West Virginia

COAL LESSEE WITH DECLARATION ON RECORD:  
Name  
Address

OIL & GAS INSPECTOR TO BE NOTIFIED:  
Name Robert Bates

The undersigned Well Operator is entitled to operate for Oil or Gas Purposes at the above Location under a Deed \_\_\_ / Lease X / Other Contract \_\_\_ / Dated 2/25/ 1980, to the undersigned Well Operator from Paul Bostic, et, al (If said Deed, Lease or Other Contract has been recorded:)

Recorded on 8/26/ 1980, in the Office of the Clerk of the County Commission of Braxton County, West Virginia, in Deed Book 384, at Page 241. A Permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper \_\_\_ / Redrill \_\_\_ / Fracture or Stimulate \_\_\_  
Plug Off Old Formation \_\_\_ / Perforate New Formation \_\_\_ /  
Other Physical Change in Well (Specify) \_\_\_\_\_

--Planned as shown on the work order on the reverse side hereof.

The above named Coal Operator, Coal Owner(s), and Coal Lessee are hereby notified that any objection they wish to make or are required to make by Code 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by Department of Mines. Copies of this Permit Application and the enclosed Plat and Reclamation Plan have been mailed by Registered Mail or delivered by hand to the above named Coal Operator, Coal Owner(s), and coallessees on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: OFFICE OF OIL AND GAS 1615 Washington Street, East Charleston, West Virginia 25311

MERT Development, Inc  
Well Operator  
By: *Jerry Poling* Geologist

BLANKET BOND

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S. W. Jack
Address Indiana
Pennsylvania

GEOLOGICAL TARGET FORMATION, Alexander

Estimated Depth of Completed Well 5250 feet Rotary X / Cable Tools /
Approximate Water Strata Depths: Fresh, 840' feet; Salt, feet.
Approximate Coal Seam Depths: Is Coal Being Mined In The Area? Yes / No X

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight Per Ft., New, Used), FOOTAGE INTERVALS (For Drilling, Left In Well), CEMENT FILL-UP OR SACKS (Cubic Feet), PACKERS (Kinds, Sizes, Depths Set, Perforations: Top Bottom)

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2. (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a Permit is sought, and is noted as such on the Form IV-2 filed in connection therewith.

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 3-28-82

Deputy Director - Oil & Gas Division

The following waiver must be completed by the Coal Operator and by any Coal Owner or Coal Lessee who has recorded a Declaration under Code § 22-4-20, if the Permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned Coal Operator / Owner / Lessee of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the Well Operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 19 By