



NOTE: Existing Well N 87°W 650' from Proposed Well Location

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION B.M. HEBRON EL. 758

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) William F. Woodbine
R.P.E. 5111 L.L.S. _____

PLACE SEAL HERE

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



DATE DECEMBER 16, 1981
OPERATOR'S WELL NO. _____
API WELL NO. 47-073-1409
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 916 WATER SHED MC KIM CREEK
DISTRICT LA FAYETTE COUNTY PLEASANTS
QUADRANGLE ELLENBORO 7 1/2' ST. MARYS' EC
SURFACE OWNER C. CAMPBELL et al ACREAGE 179
OIL & GAS ROYALTY OWNER A BULLMAN & G. FREELAND LEASE ACREAGE 179
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 5,500'
WELL OPERATOR Browning & Evans Enterprises DESIGNATED AGENT FRANK E. PETTEL
ADDRESS 2800-28th St., Suite 153 Santa Monica, CA 90405 ADDRESS 417 1/2 SECOND St. St. Marys W.V. 26170

JAN 26 1982



IV-35
(Rev 8-81)

Date 5/27/82
Operator's
Well No. No.1
Farm Campbell
API No. 47 - 073 - 1409

State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 946' Watershed McKim Creek
District: Lafayette County Pleasants Quadrangle Ellenboro

COMPANY BEM Petro I
ADDRESS 2800 28th Street, Suite No.153
Santa Monica, CA. 90405
DESIGNATED AGENT Percy Johnson
ADDRESS Rt. 3, Box 2, St. Mary's, W.VA.
SURFACE OWNER C. Campbell
ADDRESS NA
MINERAL RIGHTS OWNER A. Bullman & G. Freeland
ADDRESS 6th St., St. Mary's, W.VA. 26170
OIL AND GAS INSPECTOR FOR THIS WORK Phil
Tracy ADDRESS Middlebourne, W.VA.
PERMIT ISSUED 12/23/82
DRILLING COMMENCED 1/8/82
DRILLING COMPLETED 1/13/82
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

| 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 | 1142 | 1142 | 425 |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | 5122 | 5122 | 808 |
| 3 | | | |
| 2 | | | |
| Liners used | | | |

GEOLOGICAL TARGET FORMATION Benson-Alexander Depth 5150 feet
Depth of completed well 5122 feet Rotary X / Cable Tools ___
Water strata depth: Fresh 90' feet; Salt Above 1142 feet
Coal seam depths: Above 1142 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 4836'-5058' feet
Gas: Initial open flow 50 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 20 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 625 psig (surface measurement) after 24 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

(Continue on reverse side)

MAR 28 1983

LEAS. 1409

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

Perforated from 4386'-5058' with 26 shots. Fractured well with 500 gallons of 15% HCl, 295 barrels of treated 2% KCl water, and 820,000 scf of Nitrogen with 51,000 lbs. of 20-40 sand.

WELL LOG

| FORMATION | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS Including indication of all fresh and salt water, coal, oil and gas |
|---------------------------------|-----------|--------------|----------|-------------|--|
| No samples caught above | | | 1500 | | |
| Sand | buff | soft | 1500 | 1560 | |
| Shale | grey | soft | 1560 | 1600 | |
| Sand | buff | hard | 1600 | 1640 | |
| Sand/Shale | grey-buff | soft | 1640 | 1800 | |
| Sand | white | soft | 1800 | 1850 | |
| ^{Bigline} Limestone | white | soft | 1850 | 1990 | |
| Sand ^{Injun} | white | soft | 1990 | 2070 | <u>Florescent</u> |
| Sand/Shale | grey | soft | 2070 | 5200 | |

5200
2470
2730

Angela @ TD

(Attach separate sheets as necessary)

Well Operator

By: _____

Date: _____

Note: Regulation 2.02(i) 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
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil XX / Gas XX /

(If "Gas", Production XX / Underground storage ___ / Deep ___ / Shallow ___)

LOCATION: Elevation: 946' Watershed: McKim Creek
District: Lafayette County: Pleasants Quadrangle: Ellenboro 7 1/2'
Frank A. Browning & Ned Evans (TD Drilling)

WELL OPERATOR: Frank A. Browning & Ned Evans (TD Drilling) DESIGNATED AGENT: Frank E. Pethtel
Address: 2800-28th St., Suite 153 Address: 417 1/2 Second Street
Santa Monica, CA 90405 St. Marys, WV 26170

OIL AND GAS ROYALTY OWNER: A. Bullman & G. Freeland
Address: 6th St.
St. Marys, WV 26170
Acreage: 179

COAL OPERATOR: None
Address: _____

SURFACE OWNER: C. Campbell et al
Address: _____
Acreage: 179

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME: None
Address: _____

FIELD SALE (IF MADE) TO:
NAME: _____
Address: _____

NAME: _____
Address: _____

COAL LESSEE WITH DECLARATION ON RECORD:
NAME: None
Address: _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME: Mr. Phillip Tracey
Address: Middlebourne, WV 26149
Telephone: 304-758-4573

RECEIVED

DEC 23 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease ___ / other contract X / dated 7-8, 1981, to the undersigned well operator from Key Oil Company.

(If said deed, lease, or other contract has been recorded:)

Recorded on 7-8, 1981, in the office of the Clerk of County Commission of Pleasants County, West Virginia, in 147 Book at page 524. A permit is requested as follows:

PROPOSED WORK: Drill XX / 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 receipt of this Application by the Dept. 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 coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

Frank A. Browning & Ned Evans (TD Drilling)
DbA, Browning & Evans Enterprise
Well Operator

By: Frank E. Pethtel
Its: Designated Agent

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)

Address

GEOLOGICAL TARGET FORMATION Alexander

Estimated depth of completed well 5500 feet. Rotary XX Cable tools /

Approximate water strata depths: Fresh, 150 feet; salt, 1800 feet.

Approximate coal seam depths:

Is coal being mined in this area: Yes / No XX /

CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS | | | | | FOOTAGE INTERVALS | | CEMENT FILL UP OR SACKS Cubic ft. | PACKERS |
|-----------------------|----------------|-------|---------------|-----|------|-------------------|--------------|-----------------------------------|---------------|
| | Size | Grade | Weight per ft | New | Used | For Drilling | Left in Well | | |
| Conductor | 16" | H40 | 38lbs | | XX | 20' | | | Kinds |
| Fresh water | | | | | | | | | |
| Coal | | | | | | | | | Sizes |
| Intermed. | 5 7/8" | H40 | 20lbs | XX | | | 1046' | To surf. | |
| Production | 4 1/2" | J55 | 10 1/2lbs | XX | | | 5500' | 650 sacks | Depths set |
| Tubing | 2" | ERW | 4.7lbs | XX | | | 5500' | | |
| Liners | | | | | | | | | 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 §22-4-15b and Regulation 23, (iv) unless previously paid on the same well, the fee provided by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-2a from the owner of any water well or drilling within 200 feet of the proposed well.

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.

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 8-31-82.

Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or 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:

W A I V E R

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 regularions.

Date: _____, 19____.

By: _____

Its: _____