

NOTE: Adjacent Property owners used as reference to corners.

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1:200'
PROVEN SOURCE OF ELEVATION B.M. 837 Forks of Road South of Pine Grove Church

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. _____ L.L.S. _____

PLACE SEAL HERE

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



DATE OCTOBER 26, 1981
OPERATOR'S WELL NO. #1
API WELL NO. 8
47 - 073 - 1348
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 848 WATER SHED Mc KIM CREEK
DISTRICT LAFAYETTE COUNTY PLEASANTS
QUADRANGLE ELLENBORO St. Marys EC
SURFACE OWNER BURL BYERS ACREAGE 159.08
OIL & GAS ROYALTY OWNER Burl Byers Heirs LEASE ACREAGE _____
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 Devonian + Kane ESTIMATED DEPTH 5990'
WELL OPERATOR Klondike Development DESIGNATED AGENT Frank E. Pettel
ADDRESS P.O. Box 11 Middlebourne WV 26149 ADDRESS 417 1/2 Second Street St. Marys WV 26170
NOV 16 1981



IV-35
(Rev. 8-81)

Date 5/27/82
Operator's
Well No. No.1
Farm Byers
API No. 47 - 073 - 1348

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 / Gas / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 848 Watershed McKim Creek
District: Lafayette County Pleasants Quadrangle Ellenboro

COMPANY BEM Petro I
ADDRESS 2800 28th Street, Suite No. 153
Santa Monica, California 90405
DESIGNATED AGENT Percy Johnson
ADDRESS Route 3, Box 2
St. Mary's, West Virginia
SURFACE OWNER Burl Byers
ADDRESS Hebron, West Virginia
MINERAL RIGHTS OWNER Burl Byers
ADDRESS Hebron, West Virginia
OIL AND GAS INSPECTOR FOR THIS WORK Phil
Tracy ADDRESS Middlebourne, W.VA.
PERMIT ISSUED 10/26/81
DRILLING COMMENCED 1/2/82
DRILLING COMPLETED 1/6/82
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	962'	962'	283
7			
5 1/2			
4 1/2	5938'	5938'	698
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Depth 5990' feet
Depth of completed well 5933' feet Rotary X / Cable Tools _____
Water strata depth: Fresh 90 feet; Salt Above 1100' feet
Coal seam depths: Above 1100' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Marcellus Huron Pay zone depth 5534'-5890' feet
Gas: Initial open flow 500 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 490 Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 1675 psig (surface measurement) after 12 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

PLEASANTS, 1348

MAR 28 1983

(Continue on reverse side)

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

Perforated well from 5534'-5890' with 29 holes. Fractured well with 500 gallons of 15% HCl, 342 bbls. of treated 2% KCl, and 1.5 MMSCF of Nitrogen to create a 75 quality foam. Used 40,000 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			1100'		
Sand	grey	soft	1100	1170	
Shale	grey	soft	1170	1225	
Sand	grey	soft	1225	1320	
Sand	brown	soft	1320	1480	
Shale	grey	soft	1480	1625	
Sand	white	soft	1625	1690	
Lime	buff	soft	1690	1820	
Sand/Shale	grey	soft	1820	1900	
Sand ^{Inj^{on}}	white	soft	1900	1980	
Sand/Shale	grey	soft	1980	5900	
Lime/Shale	brown	soft	5900	<u>5940</u>	
					TD in Java
					5940 <u>2380</u> 2560

(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."

(Obverse)

(Revised 3-81)



Farm Burl Byers

API #47 - 073- 1348

Date Oct. 28, 1981

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 XX / Shallow /

LOCATION: Elevation: 848 Watershed: McKim Creek
District: Lafayette County: Pleasants Quadrangle: Ellenboro

WELL OPERATOR Klondike Development DESIGNATED AGENT Frank E. Pethtel
Address P.O. Box 11 Address 417 1/2 Second Street
Middlebourne, WV 26149 St. Marys, WV 26170

OIL AND GAS
ROYALTY OWNER Burl Byers Heirs
Address _____
Acreage 159.08

COAL OPERATOR None
Address _____

SURFACE OWNER Same
Address _____
Acreage _____

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

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

NAME _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:

COAL LESSEE WITH DECLARATION ON RECORD:
NAME None
Address _____

NAME Mr. Phillip Tracey
Address Middlebourne, WV 26149
Telephone 304-758-4573

RECEIVED

OCT 29 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 XX / other contract / dated April 28 19 81, to the undersigned well operator from Burl Byers Heirs.

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

Recorded on Sept. 25, 19 81, in the office of the Clerk of County Commission of

Pleasants County, West Virginia, in Deed 153 Book at page 523. 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

Klondike Development Corporation
Well Operator

By: Frank E. Pethtel
Its: Vice President

BLANKET BOND

(Revised 3-81)

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 Middle Devonian - Kane

Estimated depth of completed well 5990 feet. Rotary XX / Cable tools /

Approximate water strata depths: Fresh, feet; salt, 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
Intend.	8 5/8	H40	23lbs	XX			948'	To surf.	
Production	4 1/2"	J55	10 1/2 lbs	XX			5990'	675 sacks	Depths set
Tubing	2"	erw	4.7lbs	XX			5990'		
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 §22-4-8a from the owner of any water well or drilling 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.

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 6-30-82.


Deputy Director - Oil & Gas Division

Drilling 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:

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 regulations.

Date: _____, 19____.

By: _____

Its: _____