



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 100'
 MINIMUM DEGREE OF ACCURACY 1 in 2000'
 PROVEN SOURCE OF ELEVATION Well #11 on Same Farm

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 P. Foley
 R.P.E. # 4449 L.L.S. _____

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE 1-29, 19 83
 OPERATOR'S WELL NO. #13
 API WELL NO. 47-061-0721
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1042.03 WATER SHED Days Run
 DISTRICT Clay COUNTY Monongalia
 QUADRANGLE 1 to 62500 Blacks ville 151 WC
 SURFACE OWNER Yost Heirs ACREAGE 3.25 Acres
 OIL & GAS ROYALTY OWNER Yost Heirs LEASE ACREAGE 3.25
 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 Big Tujind ESTIMATED DEPTH 2000'
 WELL OPERATOR Yost & Yost DESIGNATED AGENT Larry Yost
 ADDRESS Rt #2 Fairview W.Va. ADDRESS Rt #2 Fairview W.Va.

MAR 14 1983

IV-35
(Rev 8-81)

RECEIVED
JAN 19 1984

OIL & GAS DIVISION
DEPT. OF MINES



State of West Virginia
Department of Mines
Oil and Gas Division

Date January 17, 1984
Operator's
Well No. 13
Farm Larry Yost Farm
API No. 47 - 061 - 0721

RECEIVED
FEB 1 1984

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OIL & GAS DIVISION

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

DEPT. OF MINES

LOCATION: Elevation: 1042.03 Watershed Day's Run
District: Clay County Monongalia Quadrangle Blacksville

COMPANY Yost & Yost, Inc.
ADDRESS Rt. 2, Fairview, WV 26570
DESIGNATED AGENT Joe D. Yost
ADDRESS Same as above
SURFACE OWNER Larry Yost
ADDRESS Rt. 2, Box 186, Fairview, WV 26570
MINERAL RIGHTS OWNER Heirs of Perry Yost
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Wm.
Blosser ADDRESS Fairmont, WV 26554
PERMIT ISSUED 2-11-83
DRILLING COMMENCED 11-9-83
DRILLING COMPLETED 11-25-83

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	none		
13-10"	400'	250'	
9 5/8	none		
8 5/8	none		
7	1893'	1893'	cemented to surface
5 1/2	none		
4 1/2	none		
3	none		
2		2030'	none
Liners used	none		

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

GEOLOGICAL TARGET FORMATION Injun Sand Depth 1902 feet
Depth of completed well 2104 feet Rotary x / Cable Tools _____
Water strata depth: Fresh 50 feet; Salt 2090 feet
Coal seam depths: 263-541-598-633-1029 Is coal being mined in the area? Yes

OPEN FLOW DATA

Producing formation Injun Pay zone depth 2,045 feet
Gas: Initial open flow None taken Mcf/d Oil: Initial open flow None taken Bbl/d
DRY Final open flow None Mcf/d Final open flow None Bbl/d
Time of open flow between initial and final tests --- hours

Static rock pressure 175# psig (surface measurement) after _____ hours shut in
(If applicable due to multiple completion--)

Second producing formation None 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

FEB 27 1984

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

NONE

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Lime-Slate		Hard	0 73	73 101	
Coal		Soft	101	104	
Lime-Slate		Hard	104	136	
Slate-Lime		Hard	136	161	
Sand Injun		Hard	161	198	
Shale-Lime		Soft	198	204	
Lime-Sand		Hard	204	225	
Sand-Shale		Hard	225	249	
Coal		Soft	269	268	
Shale-Sand		Soft	268	307	
Sand-Lime		Hard	307	336	
Lime-Shale		Hard	336	365	
Shale-Lime		Soft	365	394	
Redrock-Lime		Soft	394	423	
Lime-Sand		Hard	423	452	
Shale-Lime		Soft	452	482	
Lime-Shale		Hard	482	512	
Shale-Lime		Soft	512	541	
Coal		Soft	541	546	
Sand Injun		Hard	546	571	
Coal		Soft	598	601	
Slate-Shale		Hard	601	631	
Pittsburgh Coal		Soft	633	641	
Shale-Lime		Hard	641	662	
Lime-Sand		Hard	662	692	
Sand-Lime		Hard	692	722	

(Attach separate sheets as necessary)

Well Operator

By:

Date:

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

pg. 2, 061-721

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
<u>WELL LOG CONT'D</u>					
Redrock		Soft	725	743	Shale-Redrock/Soft 1804 - 18
Lime	Big Lime	Hard	743	752	Lime/Hard <u>Big Lime</u> 1834 - 18
Redrock-Sand		Soft	752	813	Sand/Hard <u>Injun</u> 1893 - 21
Sand-Lime		Hard	813	843	Total Depth <u>2104</u>
Shale		Soft	843	874	
Redrock-Shale		Soft	874	904	
Shale		Soft	904	934	
Shale-Lime		Soft	934	1021	
Coal		Soft	1029	1032	
Shale		Soft	1032	1123	
Coal		Soft	1123	1126	
Shale		Soft	1126	1174	
Coal		Soft	1193	1195	
Sand-Shale-Lime		Hard	1195	1203	
Shale-Lime		Soft	1203	1234	
Shale-Sand		Soft	1234	1264	
Shale		Soft	1264	1323	
Shale-Sand		Soft	1323	1414	
Coal		Soft	1442	1447	
Shale		Soft	1447	1476	
Coal		Soft	1483	1485	
Sand	Injun	Hard	1485	1505	
Shale-Sand		Soft	1505	1535	
Sand	Injun	Hard	1535	1683	
Shale		Soft	1683	1804	

(Attach separate sheets as necessary)

Yost & Yost, Inc.

Well Operator
 By: [Signature] President
 Date: January 17, 1984

FEB 27 1984

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 ... encountered in the drilling of a well."

Blanket Bond
1736317



1) Date: February 11, 1983
2) Operator's Well No. 13
3) API Well No. 47 061 0071
State County Permit

DRILLING CONTRACTOR:
Brook Dev. Co.
P.O. Box 249
Fairview, WV 26570

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas
B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1042.03 Watershed: Day's Run
District: Clay County: Monongalia Quadrangle: Blacksville
- 6) WELL OPERATOR: Yost & Yost, Inc.
Address: Route # 2 Fairview, WV 26570
- 7) OIL & GAS ROYALTY OWNER: Heirs of Perry Yost
Address: _____
Acreage: 160
- 8) SURFACE OWNER: Larry Yost
Address: Route # 2 Box 136 Fairview, WV 26570
Acreage: 3.25 of 160
- 9) FIELD SALE (IF MADE) TO: Pennzoil Company
Address: Houston, TX
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED: William Blosser
Address: Route # 4 Box 317 Fairmont, WV 26574
- 11) DESIGNATED AGENT: Joe D. Yost
Address: Route # 2 Box 137 Fairview, WV 26570
- 12) COAL OPERATOR: EACC
Address: Koppers Building Pittsburgh, PA 15210
- 13) COAL OWNER(S) WITH DECLARATION ON RECORD: EACC
Name: _____ Address: _____
Name: _____ Address: _____
- 14) COAL LESSEE WITH DECLARATION ON RECORD: _____
Name: _____ Address: _____
- 15) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION: Big Injun
- 17) Estimated depth of completed well, 2,000 feet
- 18) Approximate water strata depths: Fresh, 40' feet; salt, _____ feet.
- 19) Approximate coal seam depths: 550' 850' Is coal being mined in the area? Yes / No

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	3"						40	3 sacks - cemented to	
Coal	4"						707		Sizes
Intermediate									
Production	4 1/2"						2,000		Depths set
Tubing									
Liners									Perforations: Top Bottom

- 21) EXTRACTION RIGHTS
Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
 - 22) ROYALTY PROVISIONS
Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
 - 23) Required Copies (See reverse side.)
 - 24) 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 lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.
- Notary: _____ Signed: Yost & Yost, Inc.
My Commission Expires: March 11, 1983 Its: _____

OFFICE USE ONLY
DRILLING PERMIT

Permit number _____ Date 19

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work** In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires _____ unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
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Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) 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.
- 24) 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 the Department.

.....

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 _____

Its _____