

WELL REFERENCES:  
 N15°W, 189.50' TO 16" POPLAR  
 S15°30'E, 134.50' TO 3" POPLAR

LATITUDE 39°32'30"

LONGITUDE 80°10'30"

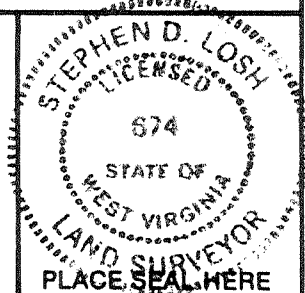
SOUTH PENN NATURAL GAS CO.  
 257.75 AC.

LAND SURVEYING SERVICES  
 21 CEDAR LANE  
 BRIDGEPORT, WV 26330  
 PHONE: 304-842-2018

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION Top of Knob 1700'  
 SE of location Elev. = 1481'

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 ENERGY.  
 (SIGNED) \_\_\_\_\_  
 R.P.E. \_\_\_\_\_ L.L.S. 674  
 Stephen D. Losh



WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 #10 McJUNKIN ROAD  
 NITRO, WEST VIRGINIA 25143-2506

WELL TYPE: OIL \_\_\_\_\_ GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_\_\_ DEEP  SHALLOW \_\_\_\_\_

LOCATION: ELEVATION 1230' WATER SHED Little Mod Run  
 DISTRICT Lincoln COUNTY Marion  
 QUADRANGLE Mannington 7.5 min.

SURFACE OWNER South Penn Natural Gas Company ACREAGE 257.75  
 OIL & GAS ROYALTY OWNER \_\_\_\_\_ 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) 3-3 ~~62~~ 62

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION Oriskany ESTIMATED DEPTH 8000 +  
 WELL OPERATOR Cobham Gas Industries DESIGNATED AGENT Rick Underwood  
 ADDRESS P. O. Box 1697 ADDRESS P. O. Box 1697  
 Clarksburg, WV 26302-1697 Clarksburg, WV 26302-1697

AUG 28 1997

DEEP INSILL

FORM WV-6

COUNTY NAME PERMIT

RECEIVED  
WV Division of  
Environmental Protection  
JAN 28 1998

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: PNZOIL COMPANY

Operator Well No.: BLKSHRE/PNZL #1

LOCATION: Elevation: 1,230.00 Quadrangle: MANNINGTON

District: LINCOLN County: MARION  
Latitude: 490 Feet South of 39 Deg. 32Min. 30 Sec.  
Longitude 5940 Feet West of 80 Deg. 17 Min. 30 Sec.

Company: COBHAM GAS INDUSTRIES, IN  
P. O. BOX 1697  
CLARKSBURG, WV 26302-1697

Agent: RICK UNDERWOOD

Inspector: RANDAL MICK  
Permit Issued: 08/29/97  
Well work Commenced: 9/3/97  
Well work Completed: 12/10/97

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 8118  
Fresh water depths (ft) 109;138;790

Salt water depths (ft) 1653

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 679; 712

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	30 1/2		
11 3/4	304	304	150sks to surface
8 5/8	1733	1733	477sks to surface
4 1/2	7999.15	7999	210sks 970' Fill

OPEN FLOW DATA

Producing formation Huntersville Chert Pay zone depth (ft) 7713-7716  
Gas: Initial open flow 103 MCF/d Oil: Initial open flow 0 Bbl/c  
Final open flow Testing MCF/d Final open flow 0 Bbl/c  
Time of open flow between initial and final tests 3 months Hours  
Static rock Pressure 1800 psig (surface pressure) after 10 days Hours

Second producing formation None Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/c  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/c  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Cobham Gas Industries, Inc.  
For: COBHAM GAS INDUSTRIES, INC.

By: Peter Battles  
Date: January 20, 1998

JAN 30 1998

Frac CrossLink

(Huntersville Chert 7713-7766 (36 shots); 5000 gal. 20% HCL; 40000 lb. 20/40 Sand

Depth	Formation Description	Shows
0 - 679	Sand & Shale	1" Stream Water 138'
679 - 683	Coal	Coal
683 - 712	Shale	
712 - 715	Coal	Coal
715 - 889	Sand & Shale	Damp @ 790'
889 - 1604	Red Rock & Shale	
1604 - 1690	Sand	Damp @ 1653'
1690 - 1705	Shale	
1705 - 1750	Sand	
1750 - 1960	Sand & Shale	
1960 - 2040	Big Lime	
2040 - 2150	Big Injun	
2150 - 2580	Sand & Shale	
2580 - 2980	Sand	Gas show 2950'
2980 - 3100	Shale	
3100 - 3110	Sand	Gas show
3110 - 5150	Shale	
5150 - 5200	Benson	
5200 - 7450	Shale	
7450 - 7530	Tully	
7530 - 7680	Marcellus	
7680 - 7710	Owodaga	
7710 - 7920	Huntersville Chert	Gas shows
7920 - 7950	Oriskany	
7950 - TD	Heldeberg	
TD - 8118		

8118  
 5600  
 (2518) exp. ft.





STATE OF WEST VIRGINIA  
**OIL AND GAS CONSERVATION COMMISSION**  
 #10 McJUNKIN ROAD  
 NITRO, WEST VIRGINIA 25143-2506

August 25, 1997

Division of Environmental Protection  
 Office of Oil and Gas  
 Nitro, West Virginia

Re: Application for Permit #47-049-01077 to drill deep well.

COMPANY: Cobham Gas Industries

FARM: South Penn Natural Gas Co/Blackshere #1

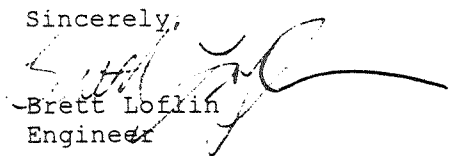
COUNTY: Marion DISTRICT: Lincoln QUAD: Mannington

The application of the above company is Approved for Oriskany.  
 (Approved or Disapproved)

Applicant has complied with the provisions of Chapter twenty-two, eight (22-8), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1.) Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owner; **no-test well**
- 2.) Provided a tabulation of all deep wells within one mile of the proposed location, including the Api number of the deep well, well name, and the name and address of operator and; **none**
- 3.) Provided a plat showing that the proposed location is a distance of **640** feet from the nearest unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,



Brett Loffin  
 Engineer

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
1997

2) Operator's well number  
Blackshere/Pennzoil #1  
3) API Well No: 47 - 049 - 1077  
State - County - Permit

Permitting STATE OF WEST VIRGINIA  
Office of Oil & Gas  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:  
(a) Name Pennzoil  
Address PO Box 5519  
Vienna, WV  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Randy Mick  
Address 111 Blackshere Drive  
Mannington, WV 26582  
Telephone (304)- 986-3324

5) (a) Coal Operator:  
Name Consolidated Coal  
Address PO Box 1314  
Morgantown, WV 26507  
(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

\_\_\_\_\_ Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:

- \_\_\_\_\_ Personal Service (Affidavit attached)
- \_\_\_\_\_ Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Cobham Gas Industries, Inc.  
By: Richard Underwood  
Its: Agent  
Address Rt. 4, Box 350A, P.O. Box 1697  
Clarksburg, WV 26302  
Telephone 304-623-0374

Subscribed and sworn before me this 19 day of August, 1997

Rhonda J. Wharton Notary Public  
My commission expires July 15, 2001

