

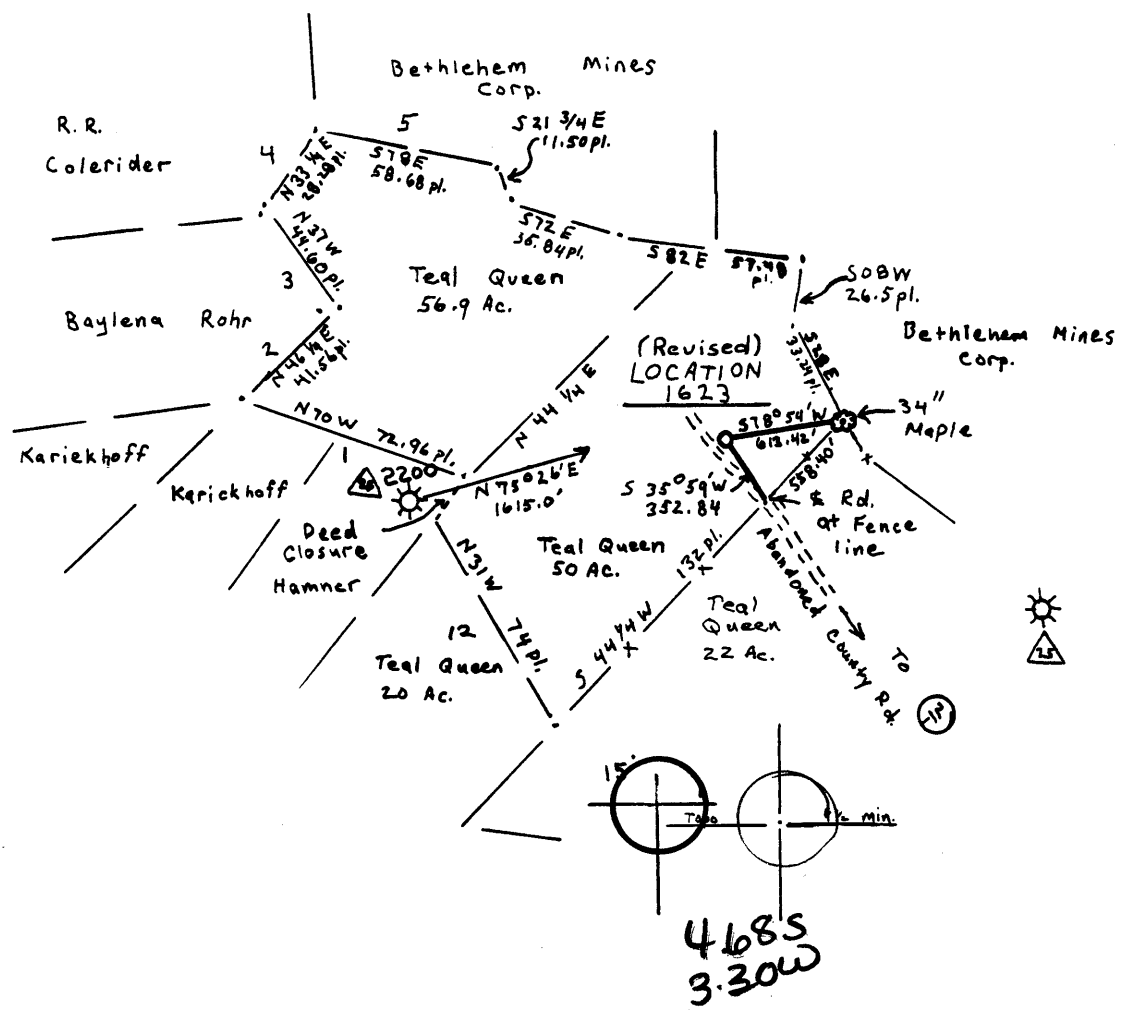
5/6/8 Plot Card CSD

5,375'

LATITUDE 39° 07' 30"

LONGITUDE 80° 12' 30"

NORTH



4685  
3.30W

△ Well status

\* Location tied into Bethlehem Mines Coordinate System

Lat 218,719.91  
Dep 1,793,445.40

FILE NO. 40  
DRAWING NO. 82-6  
SCALE 1" = 1,000'  
MINIMUM DEGREE OF ACCURACY 1 in 2,500  
PROVEN SOURCE OF ELEVATION BM 1486 SW of location

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) [Signature]  
R.P.E. Buckhannon L.L.S. 555  
W. Va.

PLACE SEAL HERE

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



DATE 3 May, 1982  
OPERATOR'S WELL NO. Revised 1623  
API WELL NO. 47-097-2444  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL TYPE: OIL    GAS xx LIQUID INJECTION    WASTE DISPOSAL     
(IF "GAS,") PRODUCTION xx STORAGE    DEEP    SHALLOW xx  
LOCATION: ELEVATION 1563 WATER SHED Pecks Run  
DISTRICT Warren COUNTY Upshur  
QUADRANGLE Century Philip 15' WC  
SURFACE OWNER Teal Queen ACREAGE 106.9  
OIL & GAS ROYALTY OWNER Teal Queen LEASE ACREAGE 50  
LEASE NO. 1559  
PROPOSED WORK: DRILL xx CONVERT    DRILL DEEPER    REDRILL    FRACTURE OR STIMULATE xx PLUG OFF OLD FORMATION    PERFORATE NEW FORMATION    OTHER PHYSICAL CHANGE IN WELL (SPECIFY)   

PLUG AND ABANDON    CLEAN OUT AND REPLUG     
TARGET FORMATION Benson ESTIMATED DEPTH 4300'  
WELL OPERATOR UNION DRILLING, INC. DESIGNATED AGENT UNION DRILLING, INC.  
ADDRESS P.O. Drawer 40 ADDRESS P.O. Drawer 40  
Buckhannon, WV 26201 Buckhannon, WV 26201

JUN 2 1982



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

Halliburton Foam Frac 08/03/82

4638/42 - Benson - 80,000# Sand - 275 bbls water - 930,000 scf Nitrogen

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Top Soil			0	5	
Sand & Shale			5	140	
Coal			140	144	Coal @ 140-144'
Sand & Shale			144	1930	½" Watger @ 50'
Big Lime			1930	2010	
Big Injun			2010	2072	
Sand & Shale			2072	2178	
Weir			2178	2256	
Sand & Shale			2256	2684	
5th Sand			2684	2800	
Sand & Shale			2800	4610	
<u>Benson</u>			4610	4632	
Sand & Shale			4632	4850 T.D.	

(Attach separate sheets as necessary)

UNION DRILLING, INC.

Well Operator

By: Joseph C. Pettey  
Date: Joseph C. Pettey, Vice President of Production

08/26/82

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 all, encountered in the drilling of a well."



**PROPOSED WORK ORDER**

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

DRILLING CONTRACTOR (IF KNOWN) UNION DRILLING, INC.  
Address P. O. Drawer 40  
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Benson

Estimated depth of completed well, 4300 feet Rotary x / Cable tools        /  
Approximate water strata depths: Fresh, ? feet; salt,        feet.  
Approximate coal seam depths: ? Is coal being mined in the area? Yes x / No        /

**CASING AND TUBING PROGRAM**

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft			For drilling	Left in well		
Conductor	11 3/4"			x		20'	20'		Kinds
Fresh Water									
Coal									Sizes
Intermediate	8 5/8"		20#	x		800'	800'	to surface	
Production	4 1/2"		10 1/2#	x			4300'	400 sks. or	Depths set
Tubing								as req. by rule 15.01.	
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 § 22-4-12b 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.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.  
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,  
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY  
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE  
IF OPERATIONS HAVE NOT COMMENCED BY 1-20-83.  
BY [Signature]

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 \_\_\_\_\_