

sep Well

6-4 Canaan Valley (287)

<u>-September</u> DEPARTMENT OF MINES, OIL AND GAS DIVISION Operator's FORM-IV-35 (Obverse) Well No. B. Thompson #2 WELL OPERATOR'S REPORT /? API Well No. 47 = **093** = 0050 [08-78] DRILLING, FRACTURING AND/OR STIMULATING, OR PROCESS CHANGE / Gas x / Liquid Injection / Waste Disposal LL TYPE: 011 (If "Gas", Production X / Underground storage / Deep / Shallow 3234 Watershed: Blackwater River CATION: Elevation: \_ District: Dry Fork County: Tucker Quadrangle: Blackwater River LL OPERATOR Berea Oil & Gas Corp. DESIGNATED AGENT Mark V. Schumacher Address 711 Chemical Bank Building Audress Rm 652 Empire BAnk Building Buffalo, NY 14202 Clarksburg, WV 26301 RMITTED WORK: Drill X / Convert / Drill deeper / Redrill / Fracture or stimulate \_\_\_ Plug off old formation / Perforate new for Other physical change in well (specify) <del>SFP33-1980-</del> ERMIT ISSUED ON \_\_\_\_ OIL & GAS INSPECTOR FOR THIS WORK: OH & GAS DIVIS Robert Stewart PPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED IF APPLICABLE: DEPT. OF WINL Box 345 Jane Lew, WV SOLOGICAL TARGET FORMATION: Oriskany Depth 8500' Feet Depth of completed wels, 40 feet Rotary X / Cable Tools Water strata depth: 300sh, 40 feet; salt, 2950 feet. Coal seam depths: None Is coal being mined in the area? NO Work was commenced 9-11 , 1979 , and completed 10-3 SING AND TUBING PROGRAM SPECIFICATIONS FOOTAGE INTERVALS PACKERS BING TYPE OR SACKS (Cubic feet Used For drilling Left in wel nductor Minds 13 <sup>3</sup>/8 H40 esh water 48 Х 237 130 sx. 237 al Simes termediate 9 5/8 J55 36 X 3177.55 3177.55 275 sx. 4 1/2 ERW 10.5 X 45481 oduction 45481 320 sx. ting ners Portract ss: :: Bottom 4024-4041 Ben 'EN FLOW DATA Pay zone depth 4433-4464 E/K Benson - Elk Producing formation Gas: Initial open flow, Mcf/d Oil: Initial open flow, \_\_\_\_ Hbl/s Final open flow, 415 Mcf/d Final open flow, \_\_\_\_\_Bbl/d Time of open flow between initial and final tests, 4 hours Static rock pressure, 1100 psig (surface measurement) after 72 hours shur tr. [If applicable due to multiple completion -- ] Second producing formation \_\_\_\_ Pay zone depth feet Gas: Initial open flow, \_\_\_\_\_Mcf/d Oil: Initial open flow, \_\_\_\_\_Htl/d

Final open flow,

Mcf/d

Time of open flow between initial and final tests, hours

Static rock presswife, \_\_\_\_\_ Pais (surface measurement) after \_\_\_\_\_ hours shut in

Final open flow,

[08-78]

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

6-17-80 Perf. ls Elk 4463-58 (12 holes) Frac w/15,000# 80/100 & 30,000# 20/40 in 470 bbls fluid. Perf. Benson 4058-33 (10 holes) Frac w/15,000# 80/100 & 45,000# 0/40 in 581 bbls. fluid used 500 gal. 202 acid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fres and sait water, coal, oil and a
Sand & Shale Sand & Shale Benson Shale Elk Sand Sand & Shale Sand Sand & Shale Tully Shale Marcellus Shale Huntersville Chert Needmore Shale Oriskany Sand & Shale			0 2902 3014 4024 4041 4433 4464 6750 6768 7688 7712 8002 8248 8263 8304	2902 3014 4024 4041 4433 4464 6750 6768 7688 7712 8002 8248 8263 8304 8580 8580	Salt Water  Show gas  Show gas
WOIE: Well plugged bar and Chert formul	to 4548 lons.	, following	y unsucces	sful stimu	lation of Oriskany

(Attach separate sheets to complete as necessary)

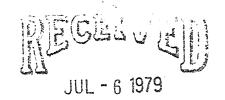
I	Berea Oil & Gas Corporation	
We	ell Operator	make timbé abaum remous et c
D.,	myschenke	
by _	1 / Verdan - him	nangyanginanahisahisahisahisanian dapama
Its	Vice-President Engineering & Oper	cation

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log! shall mean a systematic, detailed geologial record of all formations, including coal, encountered in the drilling of a well."

0G-1 Rev\_-71 56V





### Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

## OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,			
Charleston, W. Va.	DATE	July 3, 1979	
Surface Owner Ben Thompson Address Rt. 1, Davis, W.Va.	· · · · · · · · · · · · · · · · · · ·	. <u>Berea Oil &amp; Ga</u> 711 Chemical Ba	as Corporation ank, Buffalo, N.Y
Mineral Owner Same As Above		en Thompson	
Address		(waters)Blackwater	River
Coal Owner Does Not Apply		2	Elevation 3234
Address.			County Tucker
Coal Operator Does Not Apply	Quadrans	gle Blackwater Fa	alls 7.5'
Address		,	
THIS PERMIT MUST BE POSTED AT THE WELL All provisions being in accordance with Chapter of the W. Va. Code, the location is hereby appropriately appropriatel	ire if  ADDRESS Bo  PHONE 884	IFIED Robert Steen Steen Steen Robert Rob	v. W. Va.
The andersigned well operator is entitled to			
title thereto, (or as the case may be) under gra			
made to	and	recorded on the	day of
19 in County, Book	Page _		
	LY DRILLED BEFORE	JUNE 5, 1969.	
The enclosed plat was prepared by a register have been notified as of the above date.	ed engineer or licensed	and surveyor and an con	si Owners sudior obstance
The above named coal owners and/or operato to make by Section 3 of the Code, must be rece Copies of this notice and the enclosed plat we or coal owners at their above shown respective same day with the mailing or delivery of this co	ere mailed by registered address	mail, or delivered to the a day Mines at Charleston, We	above named coal operators before, or on the
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	Very truly (Sign Name		umacha
WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331	Address of Well Operator	Suite 652, Empi Street  Clarksburg  Cny or Town  W. Va.  State	
		Siete	

\*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.



# THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	OXDRILL	DEEPEN	FRACTURE-STIMULATE
DRILLING CONTRACTOR: (I	•	RESPONSIBLE AGEN	TT:
NAME S. W. Jack		NAME Mark V. S	
ADDRESS Buckhannon,	W. Va.	ADDRESSEmpire	Bank, Clarksburg, W.
TELEPHONE 472-9	403	TELEPHONE 62	4-6429
ESTIMATED DEPTH OF COMP PROPOSED GEOLOGICAL FOR		ROTARY X	_ CABLE TOOLS
		COMB STOR AC	GE DISPOSAL
			LOOD OTHER
		Will Dit	DOODOTHER
TENTA'PIVE CASING PROGRA	a.M:		
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP .
SIZE -	DRILLING	WELL	OR SACKS - CUBIC FT.
28 - 16	0 = 0 \$		
**** 13 3/8 9 - 5/8	2501	2501	Surface
8 - 5/8	22001	22001	Surface
7			
5 ½			
4 1/2	84951	dlors	6001 77:77
3	0492'	84951	600' Fillup
2			Perf. Top
Liners			Perf. Bottom Perf. Top
			Perf. Bottom
			Terr. Bottom
ADDDOVIMAND COAT DODGE	* RY		FEET
70 OOMB BRING MINED III 11	TE AREA!	BY WHOM? _	
TO DRILL:			
SUBMIT FIVE (5) COPIES OF PLAT:	OF OG - 1, \$100.00 PERM	IT FEE, PERFORMANCE	BOND AND PERMANENT COPY
TO DRILL DEEPER OR REDRI	LL:		
SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR MUST ALSO BE SUBMITT	TO 1929, A PERMANENT C	INAL PERMIT NUMBER A	ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD
O FRACTURE - STIMULATE:			
DOND, FERMANENT PLAT	r and original well red	CORD.	) COPIES OG - 1, PERFORMANCE
ING OXIGINAL PERMIT N	UMBER, AND PERFORMANCE	BOND.	229, FIVE COPIES OG - 1, SHOW-
Required forms must be file four (24) hours in advance.	ed within ninety (90) days of	completion for bond release	. Inspector to be notified twenty-
total (24) notifs in advance.			
		The second secon	
The felt	•		
wiereor.	•		issued within ten days of receipt
WAIVER: I the undersigned, Age this lease have examin	ent forned and place on our mine m	Coal Company, Owner caps this proposed well located the caps are caps.	er or Operator of the coal under
We the	Coal Company	have no objections to said	well being drilled at this location,
providing operator has Code.	complied with all rules and reg	ulations in Articles 4, 5, and	7, Chapter 22 of the West Virginia
			For Coal Company
-			Official Title

FORM OG-8

My commission expires:

January 3, 1993

#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

JUN 17 1983

OIL AND GAS WELLS DIVISION

OIL & GAS DIVISION

## AFFIDAVIT OF PLUGGING AND FILLING WELDEPT. OF MINES AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

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Notary Public. Permit No. 47-093-0050P