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## DEPARTMENT OF MINES STATE OF WEST VIRGINIA

## DECEIVE JUL 27 1981

# 0<u>:</u>1 a

Permit	Quadra
No. Bar-1491	ngleAudra 7.5

	Address	Company		
	P.O. B	Berry	7 & T	
•	ox 5,	Energy	Entero	
	Address P.O. Box 5, Clarksburg, W. V	Consultan	& .   Enterprise Inc. %	
,	W. 1	ts & N		

120 Sks. Cement 320 Sks 50/50 P		5050	4 1/2 3 2 Liners Used	bbls.
3			8 5/8 8 5/8 7 5 1/2	ne
= 0		none	20-16 Cond. XXXBX 11-3/4 9 5/8	Elev_17751_ arbour
Cement fill up Cu. ft. (Sks.)	Left in Well	Used in Drilling	Casing and Tubing	w. Va. 26301  Acres 34  Ver
Rotary Oil Oil  Cable Gas X  Recycling Comb  Water Flood Storage  Disposal (Kind)	Rotary — Rotary — Rotary — Recycling — Recycling — Water Flood Disposal — Disposal — Recycling — Recyc		RECORD	WELL F
OIL & GAS DIVISION	OIL & GA	2	IS DIVISION	A A A A A A A A A A A A A A A A A A A

Well No..

Location (waters) Tygart Valley River

Farm Lee Ketchum

District

Philippi B-388

County\_Barbos Ŝ,

Drilling Completed\_ Drilling Commenced

66.66 m

6/24/81

Mineral rights are owned by

Address

Address

Rt.

#1

Philippi, WVa

Same

The surface of tract is owned in fee Lee Ketchum

	50501		<u>÷</u>	Depth		3	Elk & Bensc	st & 2nd	Producing Sand 1st & 2nd Elk & Benson
Feet			Salt Water_	Salt	1½" stream		Fe		Fresh water 320'
		Inches			Feet		152 & 245-2	ered at 150-	Coal was encountered at 150-152 & 245-253'
						39/16	6" - 3991 -	539 <u>- 35/1</u>	Raffles - 4539 - 35/16" - 3991 - 39/16"
Bbls. water	0 - 759	0. 20/4	75,00	80/100	15,000	holes	5-3943 - 12	erf. 393	(3) Benson Perf.: 3935-3943 - 12 holes: 15,000, 80/100, 75,000, 20/40 - 759 Bbls. water lst - 1300#
000 - 20/40	100, 65	000-50/	s, 15,	- 8 hole	170-4472	es - 42	454 - 4 ho	1ter	645 Bbls. water
3hls_water	- 686	- 20/40	0,000	0/100; 6	0,000, 8	les -	1925 - 12 hc	4916-4	(1) Elk Perf.: 4916-4925 - 12 holes - 10,000, 80/100; 60,000 - 20/40 - 686 Rhls water
1750#	llst	ing record	cement	Attach copy of cementing record. 1st 1750#	Atta		d 7/16/81	etails: Frace	Well treatment: details: Fraced 7/16/81
Hardy			-			,110# R	s. before test_	h	Well open
			1	Liners Used	Ì	dd . bb	ii.ft. per day _	539M c	Final production 539M cu ft per day bbls.
					ls. 2	bbls.	cu. ft.	66.66 m	lnitial open flow

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks	rks
Cond.	0	11		
Fill & Shale	11	30		
Sand & Shale	30	50		
Sand	50	120	Hole Damp @ 95'	
Sand & Shale	120	150		
Coal	150	152		
Sand & Shale	152	165		
Balck Shale & Coal	165	210		
Coal	210	253		
Sand	253	370	Water @ 320' - 1½"	
Sand & Shale	370	450		
Sand	450	500		
Shale & Sand	500	713		
Shale	713	840		
Red Rock	840	900		
White Sand	900	1075		
Rock &	1075	1160		
Big Lime & Big Injun	1160	1425		
& Shal	1425	1515		
Shale	1515	2155		
	2155	2235	Gas Ck @ 2535' - No Show	WO
Sand & Shale	2235	2535		
Shale	2535	2735		
Sand & Shale	2735	2935		
Shale	2935	3620	Gas Ck @ 3020' - No Show	WO
	,			Š

Indicates Electric Log tops in the remarks section.

(over)

							Sand & Shale Shale Benson Sand & Shale Sand Brown Sand	Formation Color Hard or Soft
							3620 3650 3900 3935 4570 5210 5250	Top Feet
Ву.	APPROVED	Date					3650 3900 3935 4570 5210 5408	Bottom Feet
	Owner	. 19			BY: MARRAM	J & J Enterprise Inc. % Berry Energy Consultants & Mgrs. Suite 309 Professional Bldg. P.O. Box 5 Clarksburg, W. Va. 26301	Gas Ck @ 3952' - 40/10 - 1'' w/wate: Gas Ck @ 4694' - 4/10 - 2'' w/wate: Gas Ck @ 5408' - 6/10 - 2'' w/water	Oil, Gas or Water * Remarks

(Title)



# DEPARTMENT OF MINES



### Oil and Gas Division

AND GAS WELL PERMIT APPLICATION DEPT. OF MINES

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THE DEPARTMENT OF MINES,

*SECTION 3 If no objections are filed or found by notice and plat by the department of mines, to said proposed loca the filing of such plat, that no objections have been made by the control of the		OFFICE OF OIL AND GAS 1615 Washington Street, East Charleston, West Virginia Well Area Code 304 -348-3092 348-3096	Copies of this notice and the enclosed plat were mails or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	The enclosed plat was prepared by a registered engin have been notified as of the above date.  The above named coal owners and/or operator are he to make by Section 3 of the Code, must be received by,	The undersigned well operator is entitled to drill upon the above title thereto, (or as the case may be) under grant or lease dated made to M. B. Berry  19 80 in Barbour County, Book 83 Pa  XXX NEW WELL DRILL DEEPER  OIL AND GAS WELL ORIGINALLY DRILLED BEFO	All provisions being in accordance with Chapter 22, all provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved drilling. This permit shall expire if operations have not commenced by 8-30-81.  Deputy Director - Oil & Gastovision  Deputy Director - Oil & Gastovision	chum ippi, WV ippi, WV cok
*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	West Virginia	309 Pro	Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators coal owners at their above shown respective address.  Same  Same  day  before, or on the before, or on the Department of Mines at Charleston, West Virginia.  J & J Enterprises, Inc.  EASE SUBMIT COPIES OF ALL  OPHYSICAL LOGS DIRECTLY TO:  (Sign Name)  Well Operators  Well Operators	The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators re been notified as of the above date.  The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.	or lease dated	INSPECTOR TO BE NOTIFIED Robert Stewart  ADDRESS P.O. Box 345, Jane Lew, W. Va.  PHONE 884-7782	Company c/o Berry Energy Consultants, Inc.  Company c/o Berry Energy Consultants, Inc.  Address Clarksburg, W. Va.  Address Clarksburg, W. Va.  Farm Lee Ketchum  Location (water) Tygart Valley River  Well No. B-388  District Philippi  County Barbour  Quadrange AUDRA 7.5'

notice and plat by the department of mines, the filing of such plat, that no objections have and the well operator authorized to proceed.

BLANKET BOWD

47-001-1491

PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements." Signed by

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

PROPOSED WORK ORDER TO XXX DRILL	XXX DRILL DEEPEN FRACTURE-STIMULATE
DRILLING CONTRACTOR: (If Known)	Company NAME W. B. Berry
Buckhannon, W. V	ADDRESS C
NE 472-9403	TELEPHONE 622-3450
DEPTH OF COMPLETED WELL	ELL:
PROPOSED GEOLOGICAL FORMATION:	GAS
RECYCL	RECYCLING WATER FLOOD OTHER
TENTATIVE CASING PROGRAM:	
CASING AND TUBING USED FOR DRILLING	USED FOR LEFT IN CEMENT FIFE UP DRILLING WITH OR SACKS - CUBIC FT.
20 - 16	
30° 30°	30' To surface
8 - 5/8 1000°	1000' 1000' To surface
4 1/2 /4400*	44,00° 44,00° 250-sks or as real.
3	Perl. Top by rule 1501
Liners	Perf. Top
APPROXIMATE FRESH WATER DEPTHS 851 FEET APPROXIMATE COAL DEPTHS Various	ous
MINED IN THE AL	
TO DRILL:  SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERM  OF PLAT.	0G · 1,
TO DRILL DEEPER OR REDRILL:  SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIG  WELLS DRILLED PRIOR TO 1929, A PERMANENT OF MUST ALSO BE SUBMITTED.	OG - 1929,
TO FRACTURE - STIMULATE:  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUN BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.  OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR ING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND	RACTURE - STIMULATE:  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.  OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOW- ING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.
Required forms must be filed within ninety (90) days of four (24) hours in advance.	within ninety (90) days of completion for bond release. Inspector to be notified twenty-
The following waiver must be completed by the coal othereof.	completed by the coal operator if the permit is to be issued within ten days of receipt
lersigned, Agent for	for C
mined and place	place o
viding operator has complied with	mplied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia

For Coal Company