



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

DECEIVED AUG 1 7 1977

Oil and Gas Division

OIL & GAS DIVISION DEPT. OF MINES

WELL RECORD

Quadrangle Philippi
Permit No. BAR 845

Rotary <u> </u>		Oil
Cable		Gas x
Recycling_		Comb
Water Floor	1	Storage
Disposal		(Kind)
Left	Се	ment fill up

Company J & J Enterprises, c/o B		Conquitanta			
ompany o de o miterprises, c/o b	erry Energy	المرايدين بالمرايدين المرايد ا	7.7	7 - 24	C
Address 309 Prof. Bldg., Clarksbu	rø		Used in	Left	
a _{rm} Andy Coontz A	cres 18 1	Tubing	Drilling	in Wel	Cu. ft. (Sks.)
ocation (waters) <u>Elk Creek</u>					
Vell No. <u>B</u> -76 E		Size			
District Philippi County B		20-16			
		Cond.	10	7.0	
he surface of tract is owned in fee by		13-10" 11 3/4	19	19	to surface
Andy Coontz	,	9 5/8	00.7		
Address Rt. 3, Philippi, W. Va		8 5/8	985	985	to surface
lineral rights are owned by Same		7			
Address		5 1/2			
rilling Commenced 3/21/77		4 1/2	4145	4145	to 3100
rilling Completed 3/27/77		3			
nitial open flow 267,000 cu. ft		2			
inal production 1,356,000. ft. per day		Liners Used			
Vell open 4 hrs. before test					
/ell treatment details:		A 441 5		1	
	gradient his an an an	Attach copy of c			
5/20/77 Waterfrac Bens					
Rile	y 901 bbl;	<u>50,000 20/4</u>	0 1000 ga	al acid	
	·····				
					
70 70 100 1	00 505			· · · · · · · · · · · · · · · · · · ·	
Coal was encountered at 10-13; 425-4 Fresh water 50; 670° F	eet	Salt W	Vater 1	550	Feet
	eet	Salt W	Vater 1	550	Feet 058- 63
resh water 50: 670° F	eet	Salt W	Vater 1	550	Feet
resh water 50: 670° Foroducing Sand Benson Riley	eet	Salt W	Vater 15 TD 4191	550	058-63
resh water 50: 670° Foroducing Sand Benson Riley	eet	Salt W	Vater 1	550	058-63
resh water 50; 670° Formation Color Hard or Soft	Top Feet	Salt W Depth Bottom Feet	Vater 15 TD 4191	550	* Remarks
resh water 50: 670° Formation Color Hard or Soft	Top Feet	Bottom Feet	Vater 15 TD 4191	550	* Remarks * Log Tops
resh water 50; 670° Formation Color Hard or Soft	Top Feet O 10	Bottom Feet 10 13	Vater 1' TD 4191 Oil, Gas or	550 Water	* Remarks * Log Tops Big Lime 1241
resh water 50: 670° Formation Color Hard or Soft Clay Coal Sand	Top Feet O 10 13	Bottom Feet 10 13 110	Vater 15 TD 4191	550 Water	* Remarks * Log Tops Big Lime 1241 Big Injun
resh water 50: 670° Formation Color Hard or Soft Clay Coal	Top Feet 0 10 13 110	Bottom Feet 10 13 110 425	Vater 1' TD 4191 Oil, Gas or	550 Water	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547
resh water 50: 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand	Top Feet 0 10 13 110 425	Bottom Feet 10 13 110 425 428	Vater 1' TD 4191 Oil, Gas or	550 Water	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117
resh water 50; 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal	Top Feet 0 10 13 110 425 428	Bottom Feet 10 13 110 425 428 592	Vater 14 TD 4191 Oil, Gas or H ² 0 501	Water	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723
resh water 50: 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale	Top Feet 0 10 13 110 425 428 592	Bottom Feet 10 13 110 425 428 592 595	Vater 14 TD 4191 Oil, Gas or H ² 0 501	Water	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117
resh water 50; 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale Coal Sand Shale Coal Coal Coal Coal Coal Coal Coal Coal	Top Feet 0 10 13 110 425 428 592 595	Bottom Feet 10 13 110 425 428 592 595 880	Vater 1' TD 4191 Oil, Gas or	Water	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723
resh water 50; 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale Coal Sand Shale Sand Shale Coal Sand Shale Coal Sand Shale Coal Sand Shale	Top Feet 0 10 13 110 425 428 592 595 880	Bottom Feet 10 13 110 425 428 592 595 880 995	Vater 14 TD 4191 Oil, Gas or H ² 0 501	Water	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723
resh water 50: 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale Coal Sand Shale Red Rock Sand Sand Shale Sand Shale	Top Feet 0 10 13 110 425 428 592 595 880 995	Bottom Feet 10 13 110 425 428 592 595 880 995 1200	Vater 14 TD 4191 Oil, Gas or H ² 0 501	Water	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723
resh water 50: 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale Coal Sand Shale Red Rock Sand	Top Feet O 10 13 110 425 428 592 595 880 995 1200	Bottom Feet 10 13 110 425 428 592 595 880 995 1200 1215	Vater 14 TD 4191 Oil, Gas or H ² 0 501	Water	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723
resh water 50: 670° Forducing Sand Benson Riley Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale Coal Sand Shale Red Rock Sand Sand Shale Little Lime	Top Feet 0 10 13 110 425 428 592 595 880 995	Bottom Feet 10 13 110 425 428 592 595 880 995 1200	Vater 14 TD 4191 Oil, Gas or H ² 0 501	Water	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723
resh water 50: 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale Coal Sand Shale Red Rock Sand Sand Shale Little Lime Shale	Top Feet O 10 13 110 425 428 592 595 880 995 1200 1215	Bottom Feet 10 13 110 425 428 592 595 880 995 1200 1215 1260	Vater 14 TD 4191 Oil, Gas or H ² 0 501	Water	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723
resh water 50: 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale Coal Sand Shale Little Lime Shale Big Lime	Top Feet O 10 13 110 425 428 592 595 880 995 1200 1215 1260	Bottom Feet 10 13 110 425 428 592 595 880 995 1200 1215 1260	Vater 14 TD 4191 Oil, Gas or H ² 0 509	Water 70 °	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723
resh water 50: 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale Coal Sand Shale Little Lime Shale Big Injun	Top Feet O 10 13 110 425 428 592 595 880 995 1200 1215	Bottom Feet 10 13 110 425 428 592 595 880 995 1200 1215 1260 1465 1660	Vater 14 TD 4191 Oil, Gas or H ² 0 501	Water 70 °	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723
resh water 50; 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale Coal Sand Shale Little Lime Shale Big Lime Big Injun Sand Shale	Top Feet O 10 13 110 425 428 592 595 880 995 1200 1215 1260 1465	Bottom Feet 10 13 110 425 428 592 595 880 995 1200 1215 1260	Vater 14 TD 4191 Oil, Gas or H ² 0 509	Water 70 °	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723
resh water 50; 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale Coal Sand Shale Little Lime Shale Big Lime Big Injun Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale	Top Feet O 10 13 110 425 428 592 595 880 995 1200 1215 1260 1465 1660	Bottom Feet 10 13 110 425 428 592 595 880 995 1200 1215 1260 1465 1660 1700 1760	Vater 14 TD 4191 Oil, Gas or H ² 0 509	Water 70 °	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723
resh water 50: 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale Coal Sand Shale Little Lime Shale Big Lime Big Injun Sand Shale Sand Sand Shale Sand Sand Shale Sand Shale Sand Shale	Top Feet O 10 13 110 425 428 592 595 880 995 1200 1215 1260 1465 1660 1700 1760	Bottom Feet 10 13 110 425 428 592 595 880 995 1200 1215 1260 1465 1660 1700 1760 1790	Vater 14 TD 4191 Oil, Gas or H ² O 509 H ² O 67	Water 70%	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723
resh water 50; 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale Coal Sand Shale Little Lime Shale Big Lime Big Injun Sand Shale Sand Sand Shale Sand Sand Shale Red Rock	Top Feet O 10 13 110 425 428 592 595 880 995 1200 1215 1260 1465 1660 1700 1760 1790	Bottom Feet 10 13 110 425 428 592 595 880 995 1200 1215 1260 1465 1660 1700 1760 1790 3725	Vater 14 TD 4191 Oil, Gas or H ² 0 509 H ² 0 67	Water 70%	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723
resh water 50; 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale Coal Sand Shale Red Rock Sand Sand Shale Little Lime Shale Big Lime Big Injun Sand Shale Sand Shale Red Rock Sand Sand Shale Red Rock Sand Sand Shale	Top Feet O 10 13 110 425 428 592 595 880 995 1200 1215 1260 1465 1660 1700 1760 1760 1790 3725	Bottom Feet 10 13 110 425 428 592 595 880 995 1200 1215 1260 1465 1660 1700 1790 3725 3825	Vater 14 TD 4191 Oil, Gas or H ² 0 509 H ² 0 67 2" stm Gas 322 Gas 372	Water 1550	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723
resh water 50; 670° Formation Color Hard or Soft Clay Coal Sand Shale Sand Coal Sand Shale Coal Sand Shale Red Rock Sand Sand Shale Little Lime Shale Big Injun Sand Shale Sand Shale Red Rock Sand Sand Shale Riley	Top Feet O 10 13 110 425 428 592 595 880 995 1200 1215 1260 1465 1660 1700 1760 1790	Bottom Feet 10 13 110 425 428 592 595 880 995 1200 1215 1260 1465 1660 1700 1760 1790 3725	Vater 14 TD 4191 Oil, Gas or H ² 0 504 H ² 0 67 Gas 322 Gas 377 Gas 393	Water 1550	* Remarks * Log Tops Big Lime 1241 Big Injun Gantz 1547 Fifth 2117 Riley 3723

(over)

^{*} Indicates Electric Log tops in the remarks section.





Oil and Gas Division

or e cas swiner DEFT. OF MINUES

OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va. DATE March 1, 1977 J & J Enterprises, Inc., c/c			c c/o		
Surface Owner Andy Coontz	J & J Enterprises, Inc., c/o Company Berry Energy Consultants				
Address Route 3, Philippi, W. Va.			rofessional		rksburg
Mineral Owner Same	Far	m Ar	dy Coontz	Acres	.20 /8.5
Address	Loc	ation (water	Elk Cre	ek	
Coal Owner Lucille Chesser			B - 76 (/)	Elevation	15591
Address Philippi, W. Va.			Philippi		
Coal Operator Not operated	Qua	drancle	Philippi		
Address		. w. a. 1. g. c			
THIS PERMIT MUST BE POSTED AT THE WELL					
All provisions being in accordance with Chapter of the W. Va. Code, the location is hereby approfor drilling. This permit shall expi	ved INSPEC		Bill Hatfi	eld	
operations have not commenced by 7-4-77		e P O	Nov 305 No.	alchannan	7,7% 7
Deputy Director - Oil & Gas Division GENTLEMEN:		472-426	Box 385, Bu	eknannon,	, WV.
The undersigned well operator is entitled to d					
Eulah Coontz made to W. B. Bern 19 76 in Barbour County, Book	Pa	and recorde	d on the <u>ls</u>	by Andy t day of	Novembe
OIL AND GAS WELL ORIGINALL The enclosed plat was prepared by a registered have been notified as of the above date. The above named coal owners and/or operator	Y DRILLED BEFO	RE JUNE 5	, 1969. Teyor and all coal	owners and/o	or operators
OIL AND GAS WELL ORIGINALL The enclosed plat was prepared by a registered have been notified as of the above date. The above named coal owners and/or operator to make by Section 3 of the Code, must be received to the coal owners at their above shown respective as	Y DRILLED BEFO d engineer or licens are hereby notified wed by, or filed wit re mailed by register	RE JUNE 5 sed land surv that any ol h the Depart	, 1969. Teyor and all coal spection they wish ment of Mines will delivered to the above	owners and/o to make, or a thin ten (10)	or operators are required days. *
OIL AND GAS WELL ORIGINALL The enclosed plat was prepared by a registered have been notified as of the above date. The above named coal owners and/or operator to make by Section 3 of the Code, must be received to the copies of this notice and the enclosed plat were	y DRILLED BEFO d engineer or licens are hereby notified wed by, or filed with the mailed by register address y to the Department	RE JUNE 5 sed land surv that any ob the Depart red mail, or t of Mines a	eyor and all coal ejection they wish ment of Mines wi delivered to the ab day t Charleston, West	owners and/o to make, or a thin ten (10) ove named co before, Virginia.	or operators are required days. * al operators or on the
OIL AND GAS WELL ORIGINALL The enclosed plat was prepared by a registered have been notified as of the above date. The above named coal owners and/or operator to make by Section 3 of the Code, must be received to the coal owners at their above shown respective as	Y DRILLED BEFO d engineer or licens are hereby notified wed by, or filed wit e mailed by register address y to the Departmen	ed land survived that any of the Department of Mines a ruly yours, Jry Energy	, 1969. Teyor and all coal spection they wish ment of Mines will delivered to the above	owners and/o to make, or a thin ten (10) ove named co before, Virginia.	or operators are required days. * al operators or on the
OIL AND GAS WELL ORIGINALL The enclosed plat was prepared by a registered have been notified as of the above date. The above named coal owners and/or operator to make by Section 3 of the Code, must be received to make by Section 3 of the code, must be received as an enclosed plat were or coal owners at their above shown respective as same day with the mailing or delivery of this copy PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	y DRILLED BEFO d engineer or licens are hereby notified wed by, or filed with e mailed by register ddress y to the Departmen Very tr Ber	ed land survived that any of the Department of Mines a ruly yours, Jry Energy	reyor and all coal spection they wish ment of Mines widelivered to the abday t Charleston, West & J Enterprise Consultants Well Operator	owners and/o to make, or a thin ten (10) ove named co- before, Virginia. ises, Inc.	or operators are required days. * al operators or on the
OIL AND GAS WELL ORIGINALL The enclosed plat was prepared by a registerer have been notified as of the above date. The above named coal owners and/or operator to make by Section 3 of the Code, must be received to make by Section 3 of the Code, must be received copies of this notice and the enclosed plat were or coal owners at their above shown respective a same day with the mailing or delivery of this copy. PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY	y DRILLED BEFO d engineer or licens are hereby notified wed by, or filed with the mailed by register address	ed land survived that any of the Department of Mines a ruly yours, Jry Energy	reyor and all coal spection they wish ment of Mines widelivered to the abday t Charleston, West & J Enterprocessors	owners and/o to make, or a thin ten (10) ove named co- before, Virginia. ises, Inc.	or operators are required days. * al operators or on the
OIL AND GAS WELL ORIGINALL The enclosed plat was prepared by a registerer have been notified as of the above date. The above named coal owners and/or operator to make by Section 3 of the Code, must be received to make by Section 3 of the code, must be received copies of this notice and the enclosed plat were or coal owners at their above shown respective a same day with the mailing or delivery of this copy. PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505	y DRILLED BEFO d engineer or licens are hereby notified wed by, or filed with the mailed by register address y to the Departmen Very transport Ber (Sign N	ed land survived that any of the Department of Mines a ray yours, Jry Emergy lame)	reyor and all coal spection they wish ment of Mines widelivered to the abday to Charleston, West & J Enterprocessional	owners and/o to make, or a thin ten (10) ove named co- before, Virginia. ises, Inc.	or operators are required days. * al operators or on the
OIL AND GAS WELL ORIGINALL The enclosed plat was prepared by a registerer have been notified as of the above date. The above named coal owners and/or operator to make by Section 3 of the Code, must be received to make by Section 3 of the Code, must be received to make by Section 3 of the Code, must be received as an enclosed plat were or coal owners at their above shown respective a same day with the mailing or delivery of this copy. PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879	y DRILLED BEFO d engineer or licens are hereby notified with the mailed by register address y to the Department Very transport Sign A Address of	ed land survived that any obtained mail, or tof Mines a suly yours, Jry Energy lame)	reyor and all coal eyor and all coal ejection they wish ment of Mines wi delivered to the ab day t Charleston, West & J Enterpri Consultants Well Operator rofessional Street sburg, W. Va City or Town	owners and/o to make, or a thin ten (10) ove named co- before, Virginia. ises, Inc.	or operators are required days. * al operators or on the
OIL AND GAS WELL ORIGINALL The enclosed plat was prepared by a registerer have been notified as of the above date. The above named coal owners and/or operator to make by Section 3 of the Code, must be received to make by Section 3 of the code, must be received as a coal owners at their above shown respective a same day with the mailing or delivery of this copy. PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505	y DRILLED BEFO d engineer or licens are hereby notified with the mailed by register address y to the Department Very transport Sign A Address of	ed land survived that any obtained mail, or tof Mines a suly yours, Jry Energy lame)	reyor and all coal spection they wish ment of Mines will delivered to the abday to Charleston, West & J Enterprocessional Street sburg, W. Va	owners and/o to make, or a thin ten (10) ove named co- before, Virginia. ises, Inc.	or operators are required days. * al operators or on the
OIL AND GAS WELL ORIGINALL The enclosed plat was prepared by a registerer have been notified as of the above date. The above named coal owners and/or operator to make by Section 3 of the Code, must be received to make by Section 3 of the code, must be received copies of this notice and the enclosed plat were or coal owners at their above shown respective a same day with the mailing or delivery of this copy. PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505	y DRILLED BEFO d engineer or licens are hereby notified with the mailed by register address y to the Department Very transport Sign A Address of	ed land survived that any obtained mail, or tof Mines a suly yours, Jry Energy lame)	reyor and all coal spection they wish ment of Mines wi delivered to the ab day t Charleston, West & J Enterpr. Consultants Well Operator rofessional Street sburg, W. Va City or Town	owners and/o to make, or a thin ten (10) ove named co- before, Virginia. ises, Inc.	or operators are required days. * al operators or on the
OIL AND GAS WELL ORIGINALL The enclosed plat was prepared by a registerer have been notified as of the above date. The above named coal owners and/or operator to make by Section 3 of the Code, must be received to make by Section 3 of the code, must be received as a coal owners at their above shown respective a same day with the mailing or delivery of this copy. PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505	d engineer or licens are hereby notified wed by, or filed wite mailed by register address y to the Department Very tr Ber (Sign N Address of Well Operator	sed land survived that any obtained mail, or tof Mines a suly yours, Jame) 309 F Clark W. Va	reyor and all coal spection they wish ment of Mines wi delivered to the ab day t Charleston, West & J Enterpr. Consultants Well Operator rofessional Street sburg, W. Va City or Town 26301 State	owners and/o to make, or a thin ten (10) ove named co before, Virginia. ises, Inc. Bldg. 26301	are required days. * al operators or on the , C/O
OIL AND GAS WELL ORIGINALL The enclosed plat was prepared by a registered have been notified as of the above date. The above named coal owners and/or operator to make by Section 3 of the Code, must be received copies of this notice and the enclosed plat were or coal owners at their above shown respective as same day with the mailing or delivery of this copy. PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331 *SECTION 3 If no objections are filed or for notice and plat by the department of mines, to said proper the filing of such plat, that no objections have been made.	d engineer or licens are hereby notified wed by, or filed wite mailed by register address y to the Department Very tr Ber (Sign N Address of Well Operator	that any obth the Department of mines, written or found theret	geyor and all coal spection they wish ment of Mines will delivered to the abday to Charleston, West & J Enterprocessional Street Sburg, W. Va City or Town 26301 State ithin said period of orthwith issue to the wood by the department	owners and/o to make, or a thin ten (10) ove named co before, Virginia. ises, Inc. Bldg. 26301	are required days. * al operators or on the , C/O
OIL AND GAS WELL ORIGINALL The enclosed plat was prepared by a registered have been notified as of the above date. The above named coal owners and/or operator to make by Section 3 of the Code, must be received copies of this notice and the enclosed plat were or coal owners at their above shown respective as same day with the mailing or delivery of this copy. PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331 *SECTION 3 If no objections are filed or for notice and plat by the department of mines, to said proper the filing of such plat, that no objections have been made.	d engineer or licens are hereby notified wed by, or filed wite mailed by register address y to the Department Very tr Ber (Sign N Address of Well Operator	that any obth the Department of mines, written or found theret	reyor and all coal spection they wish ment of Mines wi delivered to the ab day t Charleston, West & J Enterpr. Consultants Well Operator rofessional Street sburg, W. Va City or Town 26301 State	to make, or a thin ten (10) ove named combefore, Virginia. ises, Inc. Bldg. 26301	are required days. * al operators or on the , C/O

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

PROPOSED WORK ORDER	TO X DRILL	DEEPEN FI	RACTURE-STIMULATE		
DRILLING CONTRACTOR: (If Known)		RESPONSIBLE AGENT:			
NAME S. W. Jack Drilling Company		NAMEJim Willett			
ADDRESS Indiana, Penna. TELEPHONE 412 463-9191		ADDRESS Buckhar	nnon, W. Va.		
		TELEPHONE 472-216	61		
ESTIMATED DEPTH OF COI	MPLETED WELL: 4100				
PROPOSED GEOLOGICAL FORMATION: Benson			OTIDID TOOLS		
TYPE OF WELL: OI	L GAS_X	COMB. STORAGE	DISPOSAT		
•	RECYCLI	NG WATER FLO	OD S SOMETH		
TENTATIVE CASING PROGR	A BANGER OF ALL A BANGER AND A B BAME A BANGER AND A BANGER AND A BANGER		A STATE OF THE STATE OF		
SIZE	USED FOR DRILLING	LEFT IN Second	CEMENT WHEE UP 1987 OR SACKS - CUBIC FT.		
20 - 16					
13 - 10 11 3/4 9 - 5/8	20 %	20	to surface		
8 - 5/8	1	Ten pro-			
7	1540	1540	to surface		
5 ½			ent of the second of the secon		
4 1/2	4080	4080	to 3100		
3		Cil. successor (2 - 624 value es 245)	Perf. Top		
2		The state of the s	Perf. Bottom		
Liners	CTANAL COLUMN		Perf. Top		
	33.7.45		Perf. Bottom		
SUBMIT FIVE (5) COPIE OF PLAT. FO DRILL DEEPER OR REDRE SUBMIT FIVE (5) COPIE WELLS DRILLED PRIOR MUST ALSO BE SUBMIT FO FRACTURE - STIMULATE OIL AND/OR GAS WELL BOND, PERMANENT PLA OIL AND/OR GAS WELL ING ORIGINAL PERMIT N	SOF OG - 1, \$100.00 PERMITELL: SOF OG - 1, SHOWING ORIGINATION ORIGINALLY DRILLED BEFORM AND ORIGINAL WELL RECORDINALLY DRILLED ON AN OUMBER, AND PERFORMANCE	T FEE, PERFORMANCE BOYNAL PERMIT NUMBER AND THE PLAT AND THE JUNE 5, 1929, FIVE (5) COORD. DOOR AFTER JUNE 5, 1929, BOND. DOMPHETON FOR BOND FOR	PERFORMANCE BOND. ON IE ORIGINAL WELL RECORD OPIES OG - 1, PERFORMANCE FIVE COPIES OG - 1, SHOW-		
	i kata diga tanggar 198	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	And the second of the second		
The following waiver must	be completed by the coal oper	ator if the permit is to be iss	A		
this lease have exam	gent for	ps this proposed well location	r Operator of the coal under		
providing operator na	Coal Company has complied with all rules and regulations of the company of the co	ations in Articles 4, 5, and 7,	Chapter 22 of the West Virginia		
Description of the section of the section with	in disease of the control of the con		Coal Company		

Official Title