FORM IV-2(B) (Obverse) 7-83

FILE COPY

NOTE: Keep one copy of this permit posted at the drilling location.



) Date:	October	20	, 19_84
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2) Operator's Well No.

3) API Welling.

15	7	085-	721
		Permit	

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

4) WELL TYPE: A Oil					<u>A</u>	PPLICATIO	ON FOR A WE	ELL WORK PERMIT		
Solution   Elevation   Saso	4) WELL TY	PE: A O	il wa	/ G	as	X	JNS (IF AN	AND CONDITE	OIL & C	SAS DIVISION
Sociation						X	/ Underground	d storage	DEPT.	DE SMANNETS A
6) WELLOPERATOR J & J Enterprises, Inc. Address P.O. Box 48 Buckhannon, WV 26201  8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Samual Hersman Address P.O. Box 66 Smithville, WV 26178  10) PROPOSED WELL WORK: Drill X / Drill deeper Redrill Stimulate X Plug off old formation Other physical change in well (specify) Devonian Shale 12) Estimated depth of completed well, 2100 feet; salt, N/A feet. 13) Approximate trate depths: Fresh, 2100 feet; salt, N/A feet. 14) Approximate trate depths: N/A Is coal being mined in the area? Yes No X  15) CASING AND TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR TUBING PROGRAM COnductor 11 3/4 H-20 42 X 130 130 130 0 530 NSACKS COal 8 5/8 ERW 23 X 1286 1286 TO SUrface Coal 8 5/8 ERW 23 X 1286 1286 TO SUrface Intermediate Depths set Intermediate Depths set OFFICE USE ONLY  DRILLING PERMIT November 9, 19 84	5) LOCATIO	ON: Ele	vation:	386						-mari - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
6) WELLOPERATOR J & J Enterprises, Inc. Address P.O. Box 48 Buckhannon, WV 26201  8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Samual Hersman Address P.O. Box 66 Smithville, WV 26178  10) PROPOSED WELL WORK: Drill X / Drill deeper Redrill Stimulate X Plug off old formation Other physical change in well (specify) Devonian Shale 12) Estimated depth of completed well, 2100 feet; salt, N/A feet. 13) Approximate trate depths: Fresh, 2100 feet; salt, N/A feet. 14) Approximate trate depths: N/A Is coal being mined in the area? Yes No X  15) CASING AND TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR TUBING PROGRAM COnductor 11 3/4 H-20 42 X 130 130 130 0 530 NSACKS COal 8 5/8 ERW 23 X 1286 1286 TO SUrface Coal 8 5/8 ERW 23 X 1286 1286 TO SUrface Intermediate Depths set Intermediate Depths set OFFICE USE ONLY  DRILLING PERMIT November 9, 19 84		Dis	trict:(	Clay			County:	Ritchie	Quadrangle:	Pennsboro 7.5
Address P.O. Box 48 Buckhannon, WV 26201  8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Samual Hersman Address P.O. Box 66 Smithville, WV 26178  10) PROPOSED WELL WORK: Drill X Drill Plug off old formation Other physical change in well (specify)  11) GEOLOGICAL TARGET FORMATION, Devonian Shale 12) Estimated depth of completed well, 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes No X  15) CASING AND TUBING PROGRAM  CASING OR TOTAL THE NORTH NEW Used For drilling Left in well Conductor 11 3/4 H-20 4/2 X 130 130 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6) WELL OF	PERATOR	J & (	] Ente	rpris	ses, Inc	C	7) DESIGNATED		
8) OIL & GAS INSPECTOR TO BE NOTIFIED   Name	Addres	s P.	0. Box	x 48					The second secon	48
Name   Samual   Hersman   Address   P.O. Box 66   Address   P.O. Box 48   Buckhannon, WV 26201		Bu	ckhanr	non, W	V 262	201 4	4150		Buckhannor	n, WV 26201
Address P.O. Box 48 Smithville, WV 26178  10) PROPOSED WELL WORK: Drill X   Drill   X   Drill   MV   Drill   Drill   MV   Drill   Drill	8) OIL & GA	AS INSPEC	TOR TO	BE NOTI	FIED			9) DRILLING CO	NTRACTOR:	
Smithville, WV 26178	Name	Samua 1	Hers	nan				Name S	.W. Jack Dri	lling Co.
10    PROPOSED WELL WORK:	Addres	s P.	0. Box	x 66				Address	P.O. Box 48	
Plug off old formation/ Perforate new formation/ Other physical change in well (specify)  11) GEOLOGICAL TARGET FORMATION, Devonian Shale  12) Estimated depth of completed well, 5995 feet 13) Approximate trata depths: Fresh, 100 feet; salt, N/A feet. 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes. No X  15) CASING AND TUBING PROGRAM  CASING OR SPECIFICATIONS TUBING TYPE Size Grade Perf. New Used Fordrilling Left in well OR SACKS (Cubic feet)  Conductor 11 3/4 H-20 42 X 130 130 0 58CKS TRIMS NEAR TO SUPFACE  Coal 8 5/8 ERW 23 X 1286 1286 To SUPFACE  Coal 8 5/8 ERW 23 X 1286 1286 To SUPFACE  Tubing 1286 1286 To SUPFACE  Tubing OF as required by rule 15-0  Performations:  Top Bottom  OFFICE USE ONLY  DRILLING PERMIT  November 9, 19 84		Sm	ithvi	lle, W	V 26	178			Buckhannon,	WV 26201
Plug off old formation	10) PROPOSI	ED WELL	WORK:	Drill	X	_/ Drill	deeper	/ Redrill	/ Stimulate	Χ ,
Devonian Shale    Sestimated depth of completed well,   13   Approximate trata depths: Fresh,   14   Approximate coal seam depths:   N/A   Is coal being mined in the area?   Yes   No   X      Size   Grade   Grade				Plug of	ff old	formation_	/ Perfo			
Devonian Shale    Systemated depth of completed well,   13   Approximate trata depths: Fresh,   100   feet; salt,   N/A   feet.     14   Approximate coal seam depths:   N/A   Is coal being mined in the area?   Yes   No   X     X   Is coal being mined in the area?   Yes   No   X     X   X   X   X   X   X   X   X								14.		
12  Estimated depth of completed well,   5995   feet     100   feet;   salt   N/A   feet.     14    Approximate coal seam depths:   N/A   Is coal being mined in the area?   Yes   No   X	11) GEOLOG	ICAL TAR	GET FOR							
14   Approximate coal seam depths:   N/A   Is coal being mined in the area? Yes   No   X						5995	fee	t		
14   Approximate coal seam depths:   N/A   Is coal being mined in the area?   Yes   No   X					.5	100	feet; sa	lt,N/A	feet.	
CASING AND TUBING PROGRAM   CASING OR TUBING TYPE   Size   Grade   per ft.   New   Used   For drilling   Left in well   Cubic feet   OR SACKS   Cubic feet   Cu						N/A			area? Yes	/ No X
TUBING TYPE   Size   Grade   per ft.   New   Used   For drilling   Left in well   OR SACKS (Cubic feet)										
TUBING TYPE   Size   Grade   perfit   New   Used   For drilling   Left in well   Conductor   11 3/4   H-20 42   X   130   130   0 Sacks   Tkinus   NEAT	CASING OR	-	SPEC	IFICATION	s	tl tl	FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS
Conductor	TUBING TYPE	Size	Grade		New	Ligad	For drilling	Left in well	OR SACKS	TACKERS
Fresh water	Conductor				100000000000000000000000000000000000000	Useu	The state of the s			TES NEAT
Coal   8 5/8   ERW   23   X   1286   1286   To surface   Sizes					N. 18. 3		The State of the S			Kindle / VE / J
Intermediate Production Perforations: Top Bottom Permit number  47-085-7214 November 9, 19 84				A STATE OF THE PARTY OF THE PAR	Y					Cinas
Production 4½ J-55 10.5 X 5995 5945 300 sacks Depths set  Tubing Liners  OFFICE USE ONLY  DRILLING PERMIT  47-085-7214  November 9, 19 84		10 3/9	LIXW	25			1200	1200	10 Surface	Sizes
Tubing Liners  OFFICE USE ONLY  DRILLING PERMIT  47-085-7214  Or as required by rule 15-0  Perforations:  Top Bottom  November 9, 19 84		1/1	.1-55	10 5	Y		5005	5045	200 cacks	Denths set
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OFFICE USE ONLY DRILLING PERMIT  Permit number 47-085-7214 November 9, 19 84									or as requi	
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DRILLING PERMIT         Design of the permit number         Movember 9, 19 84										
DRILLING PERMIT         Design of the permit number         Movember 9, 19 84		ates i L		1 2 2 2				Date		
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Permit number 47-085-7214 November 9, 19 84					- 1					
						וע	MILLING F	CRIVILL		
	Permit number_		47-08	5-7214					Novembe:	r 9, 1984
									Date	
This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal re-	quirements subj	ect to the co	nditions o	ontained	herein a	and on the re	everse hereof. N	otification must be giv	en to the District Oil	and Gas Inspector, (Refer to
quirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to									operator or his conf	tractor shall notify the proper
quirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper									1:0:	
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See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

FORM IV-2(B) Reverse

91

FILE COPY

Operator's Well No.\_\_\_\_

3) API WellMo. THE



STATE OF WEST VIRGINIA

1984	+- N0		CE USE ONL		DEPARE				10 00 000
PERMIT M	ODIFICATIONS	AND CONDIT	IONS (IF AN'	Y) TO	THE P	ROPOSI	ED WI	EDL WO	DELLING
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ind Redulectiff		7) DESIGNATED	• 0		essime	15,0116	ALK V	ATOR	S) WELL OPER
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Jane Co.		9) DRILLING CO			IED	BE NOTH	OR TO		OIL & GAS
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			feet; salt,			Exesh,	depths:	nate truta	13) Approxim
/ No		d being mined in the							
									) CASING AN
PACKERS	CEMENT FILLOP OR SAGNS		FOOTAGE II			FICATIONS   Weight	SPEC		CASING OR TURING TYPE
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The district Alexanda	ENDEN DE VOIS	OFFIC	E USE ONL I						bins
Perforations									27307
his part of Form IV-2(	b) is to record th	e dates of certai	n occurrences a	and an	ly follow	-up insp	ections	S	
	<u> </u>	Date						Da	te(s)
pplication received		VE TUR	Follow-u	p insp	ection(s	)		ma milijahi celebration in celebration	
		and the company of the contract of the contrac	RILLING PE						
ell work started		F 27A1N	LE E TAVILLEMENT		,,				
						DIEE-	180-7		rmit number
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ocess mening on hiw o		f permission granted	elow is evidence o	d nwod	location s	Haw bins i	operato	g the well	ils permit coverin
	en to the first det CD	dg on Feran profitoiti	reverse hereof. No.	on the	erein and	omained h	ditions c	to the con	irements subject
ell Record received	i operator or nis cont	in addition, the wei	per antied your rk has commended		imaso lau	hefore act		inspector (in	trict oil and gas
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DATE . October 12, 1984

## State of Mest Nirginia

API NO. 47 -085 - 72/4

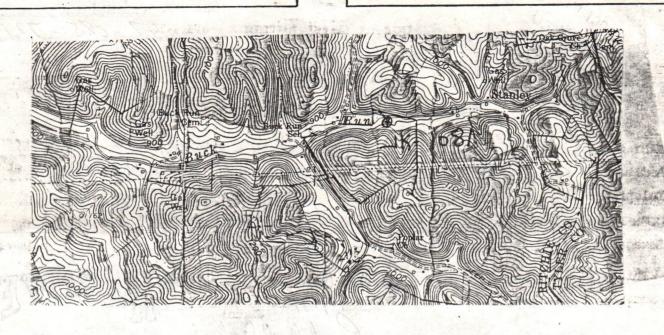
Bepartment of Mines Gil and Gas Bivision

## CONSTRUCTION AND RECLAMATION PLAN

3 0 3 ENTERPRISES INC			- DICUADO M DED	DECLIEE
COMPANY NAME J & J ENTERPRISES, INC.			RICHARD M. RED	
Address P.O. BOX 48, BUCKHANNON, W	26201		BOX 48, BUCKHANN	UN, WV 20201
Telephone 472 - 9403			472 - 9403	
LANDOWNER Eugene Costilow	_		SISTRICT Little k	
Revegetation to be carried out by	3 4	& J ENTERPRI	SES, INC.	(Agent)
This plan has been reviewed by	sittle Ke	mouha	SCD. All corre	CHAPPEN.
and additions become a part of this plan	n: /0/	19/84	112500	300
	R	ON DATE	OCT	1 1984
	Mana	(SCD Agent)	war.	1984
ACCURACE TOWN			OIL & GAS	S DIVISION
ACCESS ROAD			ICATIONE PT. O	FMINEE
Structure: Drainage Ditch	(A)	Structime	Diversion Ditch	(H)
Spacing Constructed along inside Rd. c	uts	Material	Earthen	
Page Ref. Marual 2-12		Page Ref. Mar	mual 2-12	
			3	
Structure Cross relief drain	(B)	Structure	Rip-Rap	(2)
Spacing As per table 1 in Manual 2-4		Material	Brush & Logs	
Page Ref. Manual 2-1		Page Ref. Mar	nual N/A	
Structure Stone Creek Crossing	(0)			(2)
	(C)	Structure	and the same of th	(3)
spacing In Crossing & Along Each Bank		Material		
Page Ref. Manual		Page Ref. Mar	nual	
All structures should be inspected commercial timber is to be cut and st cut and removed from the site before	acked and	all brush and	if necessary. All small timber to b	ne
RE	VEGETATIO	N		
Treatment Area I		m-c	eatment Area II	
ime 3 Tons/acre		Lime		ons/acre
or correct to pH 6.5		or correct		ars/are
Pertilizer 600 lbs/acre		Fertilizer		bs/acre
(10-20-20 or equivalent)			-20-20 or equivale	
hilch Hay 2 Tons/acre		Mulch Hay		ons/acre
Annual Rye 10 lbs/acre		Seed* Orchard		bs/acre
Annual Rye 10 lbs/acre Red Clover 5 lbs/acre		Red Clo		bs/acre
				bs/acre
*Inoculate all legumes such as vetch, noculate with 3% recommended amount.	trefoil o	ma clovers wi	th the proper bact	erium.
	FILLY PETE	Apri pv Smit	th Land Surveyifi@/	<i>®2/2</i> 023
MOTES: Please request landowner.		7 × 3 × 1	South Street	MAILULU
ecoperation to protect new	•			
seecling for one growing season. Attach separate sheets as		Glen	ville, WV 26351	
necessary for comments.	FEC	NE NO. 462	- 5634	

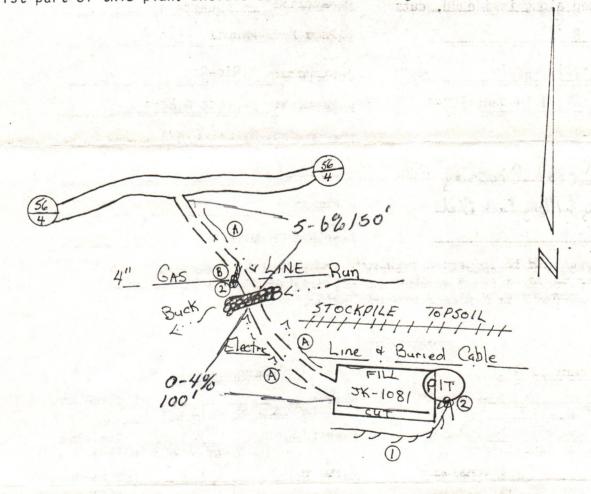
ATTACH OR PHOTOCOPY SECTION
OF INVOLVED TOPOGRAGHIC MAP.
QUADRANGLE Pennsboro 7.5

WELL SITE ACCESS ROAD



### WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, well-site, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.



Access road subject to change between company and land owner, or aquirement of right-of-way. If change is made, a revised reclamation plan will be submitted. All cuts 2:1 slope. All topsoil to be stockpiled and used in reclamation. All grades for roads and locations as well as sediment structures shown on drawing.

	LEGEND	
DRAIN PIPE 0 ->- 0 ->-	PROPERTY BOUNDARY	<del></del>
ROAD ====================================	EXISTING FENCE	X X X X X X X X X X X X X X X X X X X
DIVERSION	PLANNED FENCE	The second secon
WATERWAY C	BUILDING	
STREAM	WET SPOT $\rightarrow \!$	SMITH LAND SURVEYING CO.
OPEN DITCH>	SPRING O	GLENVILLE, WY. 26351

FORM IV-2(A)
Chverse
[8-83]
_

1)	Date:	October	20	,1984
-,		OCCODE		,150.

2) Operator's

Well No. JK-1081

3) API Well No. 47-085-7214

State County Permit

## STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OFFICE OF OIL & GAS

STATE OF THE STATE OF THE STATE

## NOTICE OF APPLICATION FOR A WELL WORK DEDMIN

(i) Na	ame_	TER(S) OF RECORD TO B <u>Eugene Costilow</u>	E SERVED	5(i)	COAL OPER	RATOR	R N/A	
(ii) Na		3121 Evelyn Avenue Loraine, Ohio 44052		5(ii)	COAL OWNI Name Address		WITH DECLARAT N/A	ION ON RECORD
	ddress_	I hold the right The requirement of The requirement of The requirement of The ROYALTY PROVISIONS  Is the right to extraor or other contract or for commence the requirement of the requi	Sent to EL Street and Postage Postage  Certified Fe Special Del Restricted I Return Receit to whom and Return receip Date, and Ac TOTAL Post is No, nothin IV-60.	PT FOR CERTIF SURANCE COVERAGE I FOR INTERNATIONA  (See Reverse)  IGENE Costil  No. 3121 Evel) and ZIP Code ine, Ohio 44  Delivery Fee  Delive	PROVIDED L MAIL  OW  //n Avenue  1052  \$ 37  75  60  \$ 1.72	ST Specific	DEPT.  y which ecifics.)  r leases provision y related is Yes,	EIVED

and sworn to and the Notice is	
signed on behalf of the Well Operators	
mi my county and State by	
Richard Poddoolife	
this 20day of October , 19 84	
My commission expires 12/7 19 92	
Dregory a Smith	
State Of County,	
west virginia	

WELL
OPERATOR J & J Enterprises, Inc.
By Techand M. (Ze floo hall)
Its Designated Agent
Address P.O. Box 48
Buckhannon, WV 26201
Telephone 472-9403

#### INSTRUCTIONS TO APPLICANT

#### CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
  - 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-lb(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
  - 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
  - 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
  - 7) See Code § § 22-4-11(d, e).

#### CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-lk and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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-lk(d) and the reclamation required by Code § 22-4-lb and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-la(c) and 22-3-l2a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-lm, 22-4-2, 22-4-2a, and 22-4-2b.

## INFORMATION SUPPLIED UNDER CODE § 22-4-11(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that-

- the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book Page
Eugene Costilow	J & J Enterprises, Inc		167/293
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#### SURFACE OWNER'S COPY



1)	Date:	ctober	20	, 19.84
2)	Operator's Well No.	JK-108	1	
3)	API Well No.	47		
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# STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

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VOLUNTARY STATEMENT OF NO OBJECTION  I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have reopies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a survent form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.  I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on atterials.  For execution by corporation, partnership, etc.)  (For execution by natural persons)  AMME:  Date: / D-2								oluntary Statement of No	Objection"
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I hereby state that I have read the instructions to surface owners on the reverse side of this Application for a Well Work Permit, and that I have reopies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a surven Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.  I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on naterials.  For execution by corporation, partnership, etc.)  (For execution by natural persons)  AMME:  Date: / D-2					VOLI	INTARY STATEM	ENT OF NO ORIFCTIO	ON.	
opies of (1) a Notice of Application for a Well Work Permit on Form IV-2(A), (2) an Application for a Well Work Permit on Form IV-2(B), (3) a surven Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.  I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based on atterials.  For execution by corporation, partnership, etc.)  (For execution by natural persons)  AME:  Date: / D-2					·OLC	ANTENI STATEM	ENT OF NO OBJECTION		
In Form IV-6, and (4) a Construction and Reclamation Plan on Form IV-9, all for proposed well work on my surface land as described therein.  I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based of naterials.  For execution by corporation, partnership, etc.)  (For execution by natural persons)  AME:	I hereby stat	te that I ha	ve read th	e instruction	ons to surf	ace owners on the re	everse side of this Applica	ation for a Well Work Pe	ermit, and that I have received
I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued based of naterials.  For execution by corporation, partnership, etc.)  [For execution by natural persons]  [AME:									
For execution by corporation, partnership, etc.)  (For execution by natural persons)  (AME:	n Form IV-6, a	nd (4) a C	onstructio	n and Rec	clamation	Plan on Form IV-9,	all for proposed well we	ork on my surface land	as described therein.
For execution by corporation, partnership, etc.)  (For execution by natural persons)		te that I ha	ve no obje	ection to the	ne planned	work described in t	nese materials, and I hav	e no objection to a perm	it being issued based on those
IAME: X Eugene Costilow Date: 10-2	lateriais.								
IAME: X Eugene Costilow Date: 10-2	For execution by	y corporat	ion, partn	ership, etc	:.)		(For execution by natu	iral persons)	
A cugeno coscious Date: / 0-2									
By (Signature)	IAME:				02007		X Elleren el	Costilour	Date: 10-24-8
	By						- Congress	(Signature)	Date: 10 AT 0
									Detai
Its Date: Date:	Its				Date			(Signature)	Date:

# INSTRUCTIONS TO SURFACE OWNERS AND EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas West Virginia Department of Mines 1615 Washington Street East Charleston, West Virginia 25311 (304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments as provided in Methods for Filing Comments below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or "" and " and
- "(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

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Operator's
Well No. JK-1081

Farm	Cos
APT NO	47

alian access	
G+:1	
Costilow	

April 16, 1985

OIL & GAS DIVISION

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

District: Clay County Rite		Quadrangle		ro 7.5 - 1
J&J Enterprises, Inc.		- Fe		nos a la l
DRESS P.O. Box 48, Buckhannon, WV 26201  SIGNATED AGENT Richard Reddecliff	Casing	Used in Drilling		Cement fill up Cu. ft.
DDRESS P.O. Box 48, Buckhannon, WV 26201  JRFACE OWNER Eugene Costilow	Size 20-16 Cond.			2.002 1. 755
ODRESS 3121 Evelyn Ave. Loraine, OH 44052 INERAL RIGHTS OWNER Same as surface	13-10"	81	81	0 sks.
DDRESS  IL AND GAS INSPECTOR FOR THIS WORK Samuel	9 5/8	1525.15	1525.15	330 sks.
Hersman ADDRESS P.O. Box 66, Smithville, WV 26178	5 1/2			re broxes I
PRILLING COMMENCED 3/13/5	4 1/2	5874.55	5874.55	430 sks.
ORILLING COMPLETED 3/21/85  OF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used	12.4.1.4.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2		
Depth of completed well 5957 feet  Water strata depths: None  Devonian Shale  Devonian Shale  75,82  75,82  Coal seam depths: None	Salt	x / Cab	le T∞ls_ t	Çw. 19 (
OPEN FLOW DATA  Producing formation Devonian Shale				
Cas: Initial open flow Ncf/d  Combined Final open flow 1,161 Ncf/d	F	inal open	flow	Bbl
Static rock pressure 1700 psig(surface)  (If applicable due to multiple completion second producing formation Alexander, Bens	eœ neasur	rement) af	ter_96 h	ours shut
Second producing formation Alexander, Bens				
Gas: Initial open flow Mcf/d				

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

Devonian Shale: Perforations: 5658-66 (8 holes) 5706-08 (4 holes) 5766-68 (4 holes) Fracturing: 300 sks. 20/40 sand: 557 Bbls. fluid.

Alexander: Perforations: 5022-32 (14 holes)

Fracturing: 400 sks. 20/40 sand: 555 Bbls. fluid.

Benson: Perforations: 4731-33 (8 holes) Fracturing: 170 sks. 20/40 sand:

Riley: Perforations: 4340-44 (7 holes) 4350-52 (7 holes) 4358-59 (4 holes)

Fracturing: 250 sks. 20/40 sand: 422 Bbls. fluid:

BOTTOM HOLE PRESSURE Pf=PweXGLS  $t=60 + (0.0075 \times 5875) + 459.7 = 564 \times 53.35 \times 564 = 30077 = 0.000033$  Pf=1700 x 2.72 (0.000033)  $(0.695)(5054)(0.9) = 1700 \times 2.72^{0.1} = 1700 \times 1.1$ WELL LOG

Pf= 1870 psi

FORMATION COLOR HAPD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all and salt water, coal, oil a
Fill & red rock	0	15	
Red rock & shale	15	35	Damp @ 35'
Sand, shale & red rock	35	170	
Sand, red rock & shale	170	390	½" stream @ 40'
Sand & shale	390	685	
Red rock, sand & shale	685	900	½" strema @ 65'
Shale & sand ·	900	1150	SEE Branch Court West Land
Sand & shale	1150	1185	1½" strema @ 75'
Sand & shale	1185	1495	
Sand	1495	1700	More water @ 82'
Little lime	1700	1735	and the second s
Big Lime	1735	1815	More @ 1120'
Injun	1815	1885	
Shale & sand	1885	4340	Gas ck @ 1875 Blew water
Riley	4340	4359	Gas ck @ 1925 y out of
Sand & shale	4359	4731	Gas ck @ 2547 tube
Benson	4731	4733	through 2"
Sand & shale	4733	5022	
Alexander	5022	5032	Gas ck @ 2856 80/10-2" w/water
Sand & shale	5032	5658	377,000 cu.ft.
Devonian Shale	5658	5768	Con ale 6 3012 70/10 21 6
Shale	5768	5957	Gas ck @ 3912 70/10-2" w/water 353,000 cu.ft.
		T.D.	VEVE COMPANY WILLIAM
the state of the s			Gas ck @ 4438 90/10-2" w/water
			400,000 cu.ft.
		A Charles Services	
		CE 184 T W. C. S. S. S.	Gas ck @ 5431 70/10-2" w/water 353,000 cu.ft.
The state of the s	**************************************	- Newsel	For terations to the t
	A Principles	a desirable pro-	arther dealer relative
there is the state of the			ikk parkage measured
			ATACL \$1312 years
Part of the second seco			

(Attach separate sheets as necessary)

J&J Enterprises, Inc

2023

Robert Dahlin/Geologist

4/16/85

Regulation 2.02(i) provides as follows: "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ixi!, encountered in the drilling of a walt."

#### STATE OF WEST VIRGINIA

## DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

## DEPT. OF MINES

Permit No. 085-7214	-2 - 21		Oil or	I of Gas Well		
Company J F J	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS		
Address	Size					
Farm EugENE CostiLow	16			Kind of Packer		
Well No. JE 1081	10			Size of		
District Clay County Rifely E	81/4			Size of		
Drilling commenced	6%			Depth set		
Drilling completedTotal depth	5 3/16			Perf. top		
Date shotDepth of shot	2			Perf. bottom		
Initial open flow/10ths Water inInch	Liners Used			Perf. top		
Open flow after tubing/10ths Merc. in Inch				Perf. bottom		
VolumeCu. Ft.	CASING CEMEN	NTED 95	size_152	No. FT 3 -16 -85		
Rock pressure lbs. hrs.	NAME OF SER	VICE COMPA	ANY 330-5	sks HAMIBAL		
Oil	COAL WAS EN	COUNTERED	AT NO	FEETINCHES		
Fresh water <u>feet</u> <u>feet</u>	FEET_	INCI	HES	FEETINCHES		
Salt water feet feet	FEET_	INC	HES	FEETINCHES		
Drillers' Names S. W. JACK - Rig	22 —	HEAU	14	# .E		
Rix	Report	C		2		
Remarks: Vis. + Rig - 2750' And Dus At 1925' Blower	//	HAD G	cap Sh	low of gas		
At 1925' Blower	0 H. Z.O.	out or	- U-Tu	B-		
ON-3-16-85 4.0.						
3-19-95 Pr'ts god		Aliko	Angle	M21512023		

OIL & GAS DIVISION

## STATE OF WEST VIRGINIA

## **DEPARTMENT OF MINES**

## OIL AND GAS WELLS DIVISION

## **INSPECTOR'S PLUGGING REPORT**

Permit No. MIN 30	O. R. Shind Way B			V	ell No				
COMPANY			ADDRESS	and the second second second	The state of the				
FARM		DISTRICT	C	COUNTY					
Filling Material Used									
Liner Lo	cation	Amoun	t Packer	Loc	ation				
PLUGS USED A	AND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST			
				2	Se 174 -				
					Aspenda				
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19-50 C - 190									
			The second secon						
The state of the				-					
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ĸ.			3-3-	7.14		1			
Drillers' Names				energy Services	8 11 11 11 11 11				
Difficis (Valles						FF			
Demonles			CC PIN -	YNINA Z					
Remarks:									
			The same was						
Supplied to									
			14 18/10/21 11						
M	21/ 100								
DATE	I hereby certify I visi	ted the above we	ll on this date.						
DATE									
		1111	DIST	TRICT WELL INS	12/22/	2023			

## STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION



OIL & GAS DIVISION

DISTRICT WELL INSPECTOR

# INSPECTOR'S WELL REPORTDEPT. OF MINES

Permit No. 85 - 72/4					Oil or Gas Well			
Company J + J En	eterprises &	Inc.	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKER	s	
Address			Size					
	0 8.0		16			Kind of Packe	r	
Farm Eugene E			13			- Pr. 201		
Well No. 7/ - 108			10			Size of		
District Clay	County Red	tellie	81/4					
Drilling commenced			65/8			Depth set		
Drilling completed	Total doub		5 3/16					
			3			Perf. top		
Date shot	Depth of shot		2			Perf. bottom_		
Initial open flow	/10ths Water in	nInch	Liners Used			Perf. top		
Open flow after tubing	/10ths Merc. in	Inch				Perf. bottom_		
Volume		Cu. Ft.	CASING CEMEN	NTED	SIZE	No. FT	Date	
Rock pressure	lbs,	hrs.	NAME OF SER	VICE COMPA	NY			
Dil	bbls.,	1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEET	INCHES	
Fresh water	feet	feet	FEET_	INCH	ES	FEET	INCHES	
Salt water	feet	feet	FEET_	INCH	ES	FEET	INCHES	
Orillers' Names							Fage (1955)	
Remarks: Visit u	ita due	Henry	DN PI	-				
Check on	emstruction	wor	R-acce	as na	l	20 5		
neck cras	esing - cu	Quest	not not	in to	200 -	Lore tim		
completed	allo	brush	work	lone	is adversaria	Cen		
11-30-84	DEW THE EX			San	mel A	Asas sans	121	

## STATE OF WEST VIRGINIA

## **DEPARTMENT OF MINES**

## OIL AND GAS WELLS DIVISION

## **INSPECTOR'S PLUGGING REPORT**

COMPANY	2.40		ADDR	ESS	4, 190		S and house.
FARM							
	44.5° Byl.	341273			2	120 120 120	
Filling Material Used							
iner Loc	eation	Amou	nt	Packer	Loc	cation	- CS
PLUGS USED A	ND DEPTH PLACED			BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONST	RUCTION-LOCATION	RECOVERED	SIZE	LOST
				R. Calley		1,300	
						1000000	7,100
						127.12	2000 S 40 M
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						a comment (FE)	Pagga la su
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				TO 180			
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Drillers' Names	ZUNCHT.	778.8		Agus .	test		model to make
					349		4.3899 1
		e y a many year a seminar meneral and a seminar and a semi			teetings of construction of transfer extension of the con-	Spike of the trial of the spirit	
Remarks:							
	I hereby certify I v	isited the above	well on this	date.			
DATE							

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OFFICE OF OIL AND GAS
CHARLESTON 25305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT



OIL & GAS DIVISION

Company: J & J ENTERPRISES Farm: COSTILOW, EUGENE

Well: JK-1081

Permit No. 47- 85-7214 County:RITCHIE

Administrator

July 11, 1985 Date

In Compliance Description 23.06 Notification prior to starting work 25.04 Prepred before drilling to prevent waste 25.03 High pressure drilling 16.01 Required permits at wellsite 15.03 Adequate Fresh Water Casing 15.02 Adequate Coal Casing 15.01 Adequate Production Casing 15.04 Adequate Cement Strength 15.05 Cement Type 23.02 Maintained Access Roads 25.01 Necessary Equipment to Prevent Waste 23.04 Reclaimed Brilling Pits 23.05 No Surface or Underground Pollution 23.07 Requirements for Production & Gathering Pipelines 16.01 Well Records on Site 16.02 Well Records Filed 7 05 Identification Markings I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED: Your well record was received and reclamation requirements approved. In accordance with Charter 22; Article 4; Section 2; the above well will remain under bond coverage for the life of the well.

TMS/nw

1.0 API swift number: (If not available, leave clank, 31 digits.)	47-085-7214						
2.0 Type of determination point sought (Use the codes found on the trant of this form.)	107 Section of NGPA		N/A Category Code		-		
3.0 Depart of the destrict names from focusion. (Only method if sections 103 or 107 in 2.0 ways).	1		5032		feet		
4.0 Name, address not code number of applicant (135 terrers per tine)	J & J Enterprises, Inc.				009480		
maximum. If code number out available, leave plank.!	P.O. Box 697					Settler Code	
	Srt Indiana,		na,	PA	15701	_	
	C.:.	1		State	Zio Cou-	•	
5.0 Equation of this well (Complete (a) or tail.)	Clay						
(a) For anshare wells (35 letters maximum for field	1 =.a. # N.	Ritch	ie		WVA		
name.)	Shunty	Chunty			State		
(b) For OCS wells:	1	N/A					
	A.36 ,'4	me		Block Number			
	Date of Lease:						
		Mo. Day	Yr.	OCS Lease Number			
	1	Mo. Day		005 0			
(c) Name and identification number of this well. (35 litters and digits maximum.)	İ	JK-10	81				
(a) If code 4 or 5 in 2.0 above, name of the reservoir (35 letters maximum)	!	N/A				-	
6.0 (a) Name and code number of the purchaser: (35 letters and realts maximum, 11 code number not available, leave blank.)	Purchaser not yet designated						
(b) Date of the contract.	Mo. Day Yr.						
(c) Estimated annual production:					MMcf		
	i !	(a) Base Price (S/MMBTU)	(b) Tax	Prices	Il Other [Indicate (-).]	(d) Total of (a), this and (c)	
7.9 Contract price (As of filing date: Complete to 3 decimal places.)		5.982	278			6.2.6.0	
3.0 Maximum lavilus rate (As at thing date. Complete to 3 decimal places.)	 	5 9 8 2	278			6 2 6 0	
9.0. Person responsible traight our leation.  Allency Use Only.  Date Heroland traillant. Allency.	Ric	hard J. Klin	00-	Va.T	Secret	ary .	
MAY 29 1985							
5-24-85 (412) 349-6800 (2000) 12/22					2/22/2023		

## DEPARTMENT OF MINES, OIL AND GAS DIVISION

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: May 24,1985 24150	AGENCY USE ONLY Der
Applicant's Name: J & J ENTERPRISES, INC.	WELL DETERMINATION FILE NUMBER
Address: P.O. Box 697	0.5 1-0
Indiana, PA. 15701	850529 -1073-085 - 7214
Gas Purchaser Contract No.	Use Above File Number on all Communications Relating to This Well
Date of Contract (Month, day and year)	The state of the s
(Month, day and year)	Designated to Dishard Designation
First Purchaser: P629	Designated Agent: Richard Reddecliff
Address: (Street or P.O. Box)	Address: P.O. Box 48  Buckhannon, WVA 26201
a a constant of the constant o	Ducktimion, WVA 20201
FERC Seller Code 009480 (State) (Zip Code)	FERC Buyer Code
NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERN: BE ADDRESSED:	ING THIS APPLICATION SHALL
Name: Vicki Vanderberg (Print),	
Signature: Dub Vandulu	(Title)
Address: P.O. Box 697 (Street or P.O. Box)	
(Street or P.O. Box) Indiana, PA. (City) (State)	(Zip Code)
Telephone: (City) (State) (412 ) 349-6800 (Area Code) (Phone N	
(Certificate of Proof of Service to Purcha	
NGPA Catagory App	
NGPA SECTION/SUBSECTION	
102 New Natural Gas	108 Stripper Well Natural Gas
102-2 2.5 Mile Test 102-3 1000 Foot Deeper Test	108- Stripper Well 108-1 Seasonally Affected
102-4 New Onshore Reservoir	108-2 Enhanced Recovery 108-3 Temporary Pressure Buildup
103 New Onshore Production Well 103 New Onshore Production Well	various and in casalle buildup
107 High Cost Natural Gas	AGENCY USE ONLY
107-0 Deep (more than 15,000 feet) 107-1 Geopressured Brine 107-2 Coal Seams	Q
X 107-3 Devonian Shale	
107-5 Production enhancement 107-6 New Tight Formation	
107-7 Recompletion Tight Formation	QUALIFIED
MR COLUMN	
MAY 2 9 1985	12/22/2023
OIL & GAS DIV. DEPT. OF MINES	
THINES	

# DEVONIAN SHALE GAMMA RAY LOG ANALYSIS APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT

Operator:	J & J Enterprises, Inc.	Agent: Richar	rd Reddecliff
	mination being sought - 107	(Devonian Si	nale)
API Well No	o.: 47-085-7214	Well Name:	Costilow JK-1081
West Virgin	nia Office of Oil and Gas : SJA File No.	County:	Ritchie
Vol	Page Line		
I. NOTE	A Gamma Ray Log has been Line, (b) a line represe (c) intervals with Gamma Base Line) and that log	nting 0.7 x ( Ray units le	(Shale Base Line), ess than 0.7 x (Shale
II. Gamma	Ray elevation indices:		
	A. Shale Base Line (API	Units)	
	<ol> <li>GR Value at Base</li> <li>Remarks:</li> </ol>	Line = 170	* API Units
III. Inter	B. Gamma Ray Log Value  1. GR Value = 119 2. Calculation: 0. 0.	* API Units 7 (GR Value a 7 ( <u>170</u> *) =	t Base Line) 119 API Units
-			Feet of less than*
From		nterval 0	.7 (Shale Base Line) Feet
2274'	5954' 36	80'	48.5'
	· · · · · · · · · · · · · · · · · · ·		
То	tal Devonial Interval 36	80'	
otal Less	Than 0.7 (Shale Base)		48.5'
Less Than	0.7 (Shale Base Line) = $\frac{0.0}{2}$	0132 x 100 =	1.32 7. 12/22/2023

<sup>\*</sup>Marked on log included with analysis.

\*\*Top of Devonian Section Recorded on First Interval in this Column.

\*\*\*Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.

### STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS DIVISION

Date May 24, 1985

Operator's Well No. JK-

API Well No.

47 - <u>085 - 7214</u> State County Permit

## WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE NGPA Section 107

	DESIGNATED AGENT Richard Reddecliff
	ADDRESS P.O. Box 48
	Buckhannon, West Virginia, 26201
WELL OPERATOR J & J Enterprises, Inc.	LOCATION Elevation 880 Watershed Buck Run
ADDRESS P.O. Box 697	Dist. Clay County Ritchiequad. Penasboro
Indiana, PA 15701	Gas Purchase
GAS PURCHASER Not Yet Designated ADDRESS	Mcter Chart Code
•	Date of Contract
Date surface drilling began: March	* * * *
Indicate the bottom hole pressure of the	well and explain how this was calculated.
BOTTOM HOLE PRESSURE Pf=PweXGLS 1 t=60 + (0.0075 x 5875) + 459.7 = 564 X=53.35	
$(0.695)(5054)(0.9) = 1700 \times 2.72$ 0.1 = 1700 × 1.1	
I, James H. McElwain , having been I have calculated the percentage of foota	
described in subparagraph (3)(1) or (3)(i report described in subparagraph (3)(ii)( of potentially disqualifying non-shale for percent of the gross Devonian age interval	i; and I have no knowledge of any information inconsistent with a conclusion that the well
STATE OF WEST VIRGINIA PA	
COUNTY OF Indiana , TO-WIT:	
I, Vicki L. Vanderberg , a Notar	y Public in and for the state and county
aforesaid, do certify that James H. McElv	wain , whose name is signed to
the writing above, bearing date the of acknowledged the same before me, in my con	day of May, 1985, has
Given under my hand and official seal this	5 24 day of May, 1985.
My term of office expires on the 23 day	
(NOTARIAL SEAL)	MY OCCLARY Public 4. 43, 1988 Member, Females and John of Notaries

