

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling Company  
Address P.O. Box 48  
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Fox

Estimated depth of completed well, 5900 feet Rotary x / Cable tools      /

Approximate water strata depths: Fresh, 30 feet; salt, 820 feet.

Approximate coal seam depths: 230 **Is coal being mined in the area?** Yes      / No     

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	11 3/4	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1800	1800	425 sks.	
Coal	8 5/8	ERW	23	x		1800	1800	425 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5850	5850	375 sks.	Depths set
Tubing									
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 operations being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling     . This permit shall expire if operations have not commenced by 9-29-82

*[Signature]*  
Deputy Director - Oil & Gas Division

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:

W A I V E R

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: Jan 21, 19 82

Eastern Associated Coal Corp.  
By Michael D. Eddy Jr.  
Its Manager of Properties



[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-619 API Well No. 47 - 001 - 1692 State County Permit

WELL TYPE: Oil / Gas x / (If "Gas", Production x / Underground storage / Deep / Shallow x /) LOCATION: Elevation: 1800 Watershed: Sandy Creek District: Cove County: Barbour Quadrangle: Colebank

WELL OPERATOR J & J Enterprises, Inc. Address P.O. Box 48 Buckhannon, WV 26201

DESIGNATED AGENT James R. Willett Address P.O. Box 48 Buckhannon, WV 26201

OIL & GAS LEASALTY OWNER Interstate Lumber CO., Inc. Address 601 E. Main St. Kingwood, WV 26537

COAL OPERATOR None Address

SURFACE OWNER Interstate Lumber CO., Inc. Address 601 E. Main St. Kingwood, WV 26537 Acreage 132.75

COAL OWNER(S) WITH DECLARATION ON RECORD: Name Eastern Assoc. Coal Corp. Address Koppers Building Pittsburgh, Pa. 15219

FIELD SALE (IF MADE) TO: Name Unknown Address

COAL LESSEE WITH DECLARATION ON RECORD: Name None Address

OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Stewart Address P.O. Box 345 Jane Lew, WV 26378

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The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract x / dated 10/23, 1981, to the undersigned well operator from S & S, Inc.

If said deed, lease, or other contract has been recorded: Recorded on 10/22, 1981, in the office of the Clerk of the County Commission of Barbour County, West Virginia, in Oil & Gas Book 89 at page 75. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill deeper / Redrill / Fracture or stimulate x / Plug off old formation / Perforate new formation / Other physical change in well (specify)

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 1615 WASHINGTON STREET EAST CHARLESTON, WV 25311 TELEPHONE: (304) 348-3092

BLANKET BOND

J & J Enterprises, Inc. Well Operator By Peter Batties Its Geologist



A-5

WELL SITE PLAN

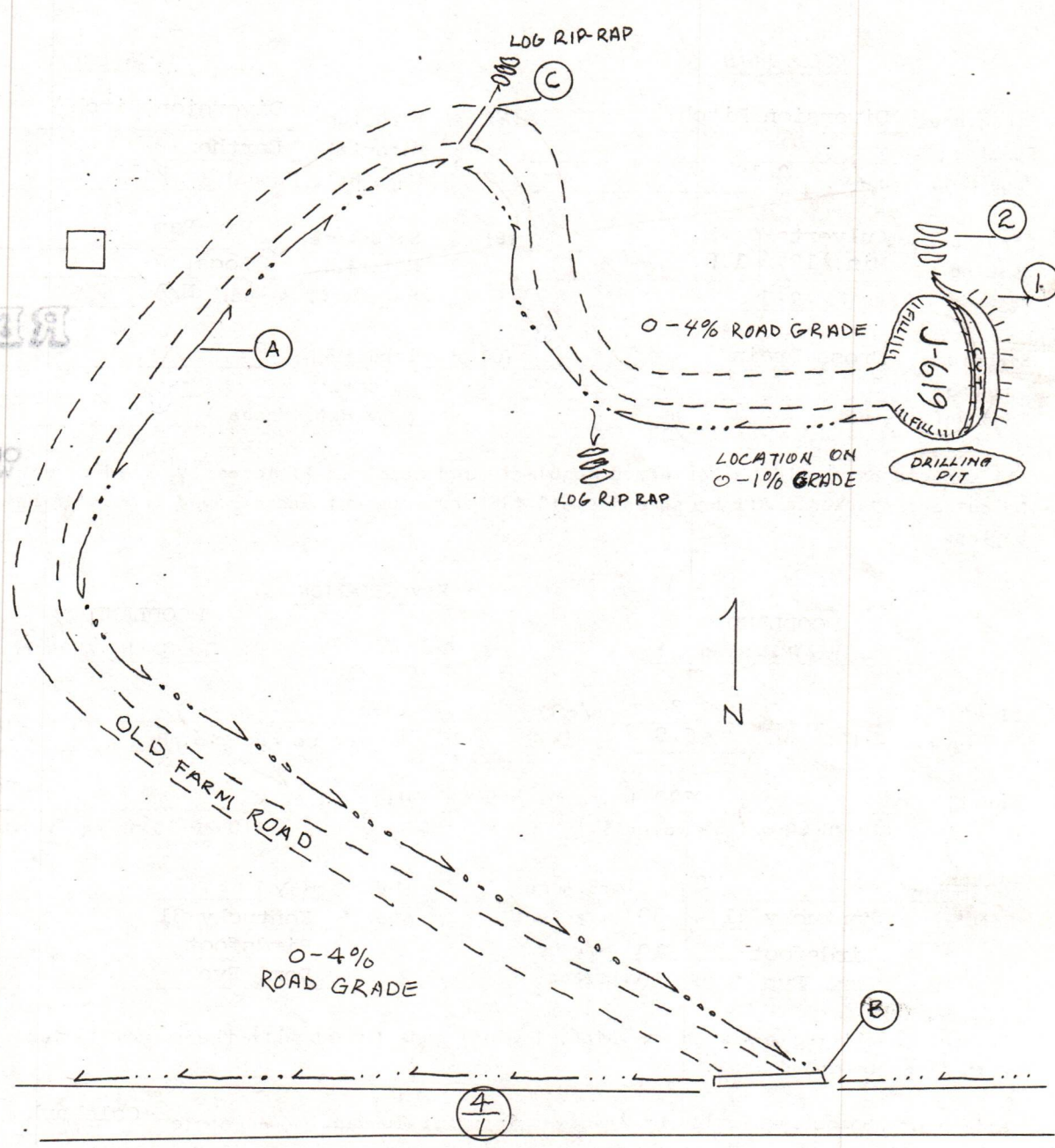
Sketch to include well location, existing access road, roads to be constructed, well site,

- Legend:
- Property Boundary
  - Road
  - Existing Fence
  - Planned Fence
  - Stream
  - Open Ditch
  - Diversion
  - Spring
  - Well Spot
  - Building
  - Drain Pipe
  - Waterway

drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.

COMMENTS: Access road will follow up-graded farm road. All grades for locations

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DIVISION OF OIL AND GAS  
DEPARTMENT OF MINES



and road are indicated on drawing as well as sediment control structures. All

timber will be cut and stacked. Access road subject to change between company and land owner or acquirement of "Right of Way," If changed, a revised plan will be

Signature: Edward D. Samuels P. O. Box 48, Buckhannon, W. Va. 26201 472-9403

Agent

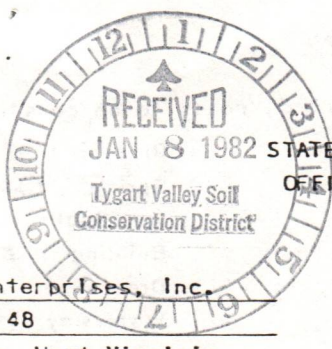
Address

Phone Number

Please request landowners cooperation to protect new seeding for one growing season.



Date 1/4 1982  
Well No. J-619  
API No. 47 - 001 - 1692  
State County Permt



Company Name J. & J. Enterprises, Inc.  
Address P. O. Box 48  
Buckhannon, West Virginia  
Telephone 472-9403  
Landowner Interstate Lumber Co.

Designated Agent James R. Willett  
Address P. O. Box 48  
Buckhannon, West Virginia  
Telephone 472-9403  
Soil Cons. District Tygart's Valley

Revegetation to be carried out by Robert Rogers (Agent)

This plan has been reviewed by Tygart's Valley SCD. All corrections  
and additions become a part of this plan. 1/16/82 Jan Freeman  
(Date) (SCD Agent)

ACCESS ROAD

LOCATION

Structure Diversion Ditch (A)  
Spacing \_\_\_\_\_  
Page Ref. Manual 2:10

Structure Culverts (B)  
Spacing Min. 12" I.D. 15" Min.  
Page Ref. Manual 2:5

Structure Cross Drain (C)  
Spacing 135' - 500'  
Page Ref. Manual 2:1

Structure Diversion Ditch (1)  
Material Earthen  
Page Ref. Manual 2:10

Structure Rip-Rap (2)  
Material Logs  
Page Ref. Manual N/A

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DEPARTMENT OF MINES**

All structures should be inspected regularly and repaired if necessary. All corners  
be cut and stacked. All brush and small timber to be cut and removed from site before dirt work  
begins.

REVEGETATION

WOODLAND  
TREATMENT AREA I

WOODLAND  
TREATMENT AREA II

Lime 3 Tons/acre  
or correct to pH 6.5

Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)

Mulch Hay 2 Tons/Acre

Seed\* Kentucky 31 30 lbs/acre  
Birdsfoot 10 lbs/acre  
Dom. Rye 10 lbs/acre

Lime 3 Tons/acre  
or correct to pH 6.5

Fertilizer 600 lbs/acre  
(10-20-20 or equivalent)

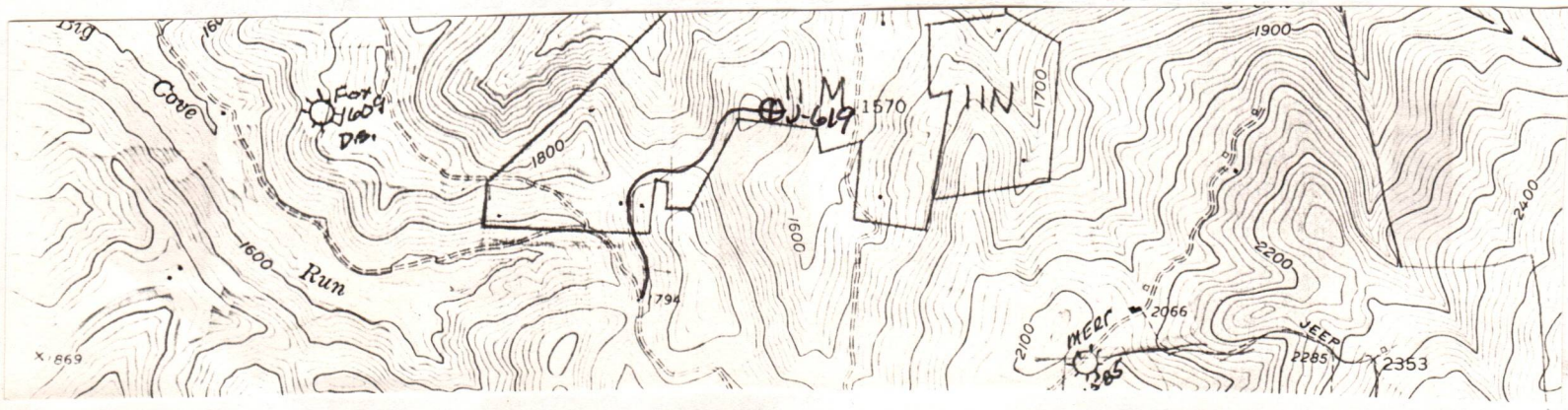
Mulch Hay 2 Tons/Acre

Seed\* Kentucky 31 30 lbs/acre  
Birdsfoot 10 lbs/acre  
Dom. Rye 10 lbs/acre

\*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate  
with 3X recommended amount.

Attach or photocopy section of Involved Topographic map. Quadrangle Colebank 7.5'

Legend: Well Site  
 Access Road





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

Haverty, 5th, 4th & 3rd Elks: (4998-5709) 17 holes)  
Fracturing: 150 sks. 80/100 sand: 200 sks. 20/40 sand:

Elks, 1st & 2nd: 4550-4878 (23 Holes)  
Fracturing: 120 sks. 80/100 sand: 240 sks. 20/40 sand

Riley & Benson: 4126-4398 (13 holes)  
Fracturing: 150 sks. 80/100 sand: 180 sks. 20/40 sand;

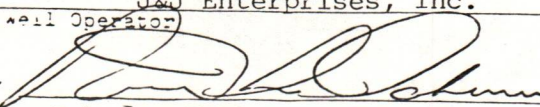
Balltown & Speechley: 3178-3522 (21 holes)  
Fracturing: 10,000 lbs. 80/100 sand: 35,000 20/40 sand: 124 Bbls. fluid:

Bayard & Elizabeth: 2600-2890 (14 holes)  
Fracturing: Foam frac with 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
Fill			0	30	
Sand, shale & red rock			30	320	
Coal			320	323	Damp @ 35'
Sand & shale			323	410	
Sand & sandy shale			410	490	1" stream @ 100'
Coal			490	491	More water @ 625'
Sand, shale & sand			491	650	1½" stream @ 1760'
Coal			650	655	
Sand			655	780	Gas ck @ 3440 No show
Coal			780	786	
Sand, & sandy shale			786	995	Gas ck @ 4065 No show
Sand, sandy shale & red rock			995	1345	
Little Lime			1345	1355	Gas ck @ 4500 No odor
Shale & red rock			1355	1360	
Sand, sandy shale & red rock			1360	1540	Gas ck @ 4555 No show
Big Lime			1540	1615	
Sand			1615	1755	Gas ck @ 5015 No show
White sand			1755	1880	
Sandy shale			1880	1900	Gas ck @ 5670 No odor
Sand & Shale			1900	2305	
Sandy shale & red rock			2305	2600	Gas ck @ 5836 No odor
Bayard & Elizabeth			2600	2890	
Sandy shale & red rock			2890	3178	
Balltown & Speechley			3178	3522	
Sandy shale & red rock			3522	4126	
Riley & Benson			4126	4398	
Sandy shale			4398	4550	
1st, 2nd & 3rd Elks			4550	4878	
Sandy shale			4878	4998	
Haverty, 3rd, 4th & 5th Elks			4998	5709	
Sandy shale			5709	5886	
				TD	

(Attach separate sheets to complete as necessary.)

J&J Enterprises, Inc.  
Well Operator  
By   
Its Robert Dahlin Geologist

NOTE: Regulation 2.02(d) provides as follows:

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



FORM IV-35  
(Reverse)  
108-781

RECEIVED  
MAY 17 1983

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES, OIL AND GAS DIVISION  
DEPT. OF MINE  
WELL OPERATOR'S REPORT

Date: 5/10, 1983  
Operator's Well No. J-G19  
API Well No. 47-001-1692  
Base County Permit

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal  
LOCATION: Elevation: 1800 / District: Cove / County: Barbour / Quadrangle: Colebank  
WELL OPERATOR: J&J Enterprises, Inc. / DESIGNATED AGENT: Harry L. Barnett  
Address: P.O. Box 48 / Buckhannon, WV 26201

PERMITTED WORK: Drill X / Convert / Redrill / Fracture or stimulate X  
plug off old formation / Perforate new formation / Other physical change in well (specify)  
Name: Robert Stewart / Address: P.O. Box 345 / Jane Lew, WV 26378  
C/O ID & GAS INSPECTOR FOR THIS WORK: 1/20, 19 82

GEOLOGICAL TARGET FORMATION: FOX  
Depth of completed well: 5886 feet / Rotary X / Cable Tools / Depth  
Water strata depth: Fresh, 1760 feet; salt, Nonefeet.  
Coal seam depths: 320-23, 650-55  
Work was commenced 2/10, 19 82, and completed 2/20, 19 82

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	Size	Grade	Weight per ft	Used for drilling	Left in well	CEMENT FILL-UP OR SACKS	FOOTAGE INTERVALS	PERFORMANCES:
Conductor	11 3/4	H-40	42	X	26	0 SKS.	26	Kinds
Fresh water	8 5/8	ERM	23	X	1888	470 SKS.	1888	470 SKS.
Coal	8 5/8	ERM	23	X	1888	470 SKS.	1888	470 SKS.
Intermediate	4 1/2	J-55	10.5	X	5787	685 SKS.	5787	685 SKS.
Tubing								
Lines								

OPEN FLOW DATA  
Producing formation: Haverly & Elks / Pay zone depth: 4998-5709  
Gas: Initial open flow, Mcf/d / Final open flow, Mcf/d  
Time of open flow between initial and final tests, 4 hours

Producing formation: Elk, Benson, Balltown, 5th Sand / Pay zone depth: 4126-4398  
Gas: Initial open flow, Mcf/d / Final open flow, Mcf/d  
Time of open flow between initial and final tests, 96 hours

Bottom Hole Pressure: Static rock pressure, 700 psig (surface measurement) after 96 hours shut in  
[If applicable use multiple completion--]  
Second producing formation: Elk, Benson, Balltown, 5th Sand / Pay zone depth: 4126-4398  
Gas: Initial open flow, Mcf/d / Final open flow, Mcf/d  
Time of open flow between initial and final tests, hours

$t=60 + (0.0075 \times 5787) \times 459.7 = 563.1 \times 53.35 \times 56.31 = 30041.5 = 0.000033$   
 $Pf = Pwe \times GLS$   
 $Pf = 700 \times 2.72 (0.000033) (0.65)$



B-3

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

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OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 001-1692

Oil or Gas Well GAS  
(KIND)

Company <u>I &amp; J ENTERPRISE</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>BUCK HANNON</u>	Size			Kind of Packer
Farm <u>INTERSTATE LUMBER</u>	16			
Well No. <u>J-619</u>	13			Size of
District <u>Cove</u> County <u>BARBOUR</u>	10			
Drilling commenced <u>2-10-82</u>	8 1/4			Depth set
Drilling completed _____ Total depth _____	6 5/8			
Date shot _____ Depth of shot _____	5 3/16			Perf. top
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top
Volume _____ Cu. Ft.	Liners Used			Perf. bottom
Rock pressure _____ lbs. _____ hrs.				
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names J. W. JACK RIG -11

Remarks: move RIG SPUD

2-10-82  
DATE

Robert Stewart  
DISTRICT WELL INSPECTOR 511















B-5

State of West Virginia  
Department of Mines  
Oil and Gas Division  
Charleston 25305

Walter N. Miller  
Director

January 19, 1983

Theodore Streit  
Administrator

J & J Enterprises Inc,

In Re: Permit 47-661-1692  
Farm Interstate Lumber Co  
Well No. J-619  
District Cove  
County Barbour  
Issued 1-29-82

Gentlemen:

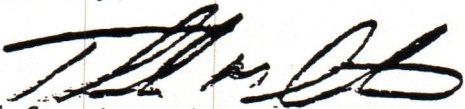
Please send four copies of the completion drilling record for the above described well location. This record must be submitted before we can request the district inspector to make a "Final Inspection".

Administrative Regulations - Rule 16.02 Filing of Well Record and Related Forms.

(a) Within 90 days after the completion of permitted work, three copies of Form IV-35, "Well Operator's Report of Drilling, Fracturing and/or Stimulating or Physical Change", containing the geological information required by Code 22-4-8b in the form specified . . . . . shall be filed with the Deputy Director

We would appreciate the above information at your earliest convenience.

Sincerely,



Ted Streit, Administrator

Sent  
1/19/83  
dia



B-6



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JUL - 5 1983

State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 25305

OIL & GAS DIVISION  
DEPT. OF MINES

DATE May 19, 1983

Mr. Robert Stewart  
P. O. Box 345  
Jane Lew, WV 26378

PERMIT NO.: 47-001-1692

COMPANY J & J Enterprises, Inc.

FARM: Interstate Lumber Co.

WELL NO.: J-619

DISTRICT: Cove

COUNTY Barbour

*NOT COMPLETE  
6-29-83*

Dear Sir:

Please make a FINAL INSPECTION within thirty (30) days of the well described above, or submit a STATUS REPORT - saying why this well can not be released at this time.

Very truly yours,

Shirley A. Daniels





State of West Virginia

Department of Mines  
Oil and Gas Division  
Charleston 25305

THEODORE M. STREIT  
ADMINISTRATOR

June 13, 1985

B-11  
BARTON B. LAY, JR.  
DIRECTOR

J & J Enterprises, Inc.  
P. O. Box 48  
Buckhannon, West Virginia 26201

In Re: Permit No: 47-001-1692  
Farm: INTERSTATE Lumber Co.  
Well No: J-619  
District: Cove  
County: Barbour  
Issued: 1-29-82

Gentlemen:

The FINAL INSPECTION REPORT for the above captioned well has been received in this office. Only the column checked below applies:

The well designated by the above captioned permit number has been released under your Blanket Bond.

Please return the enclosed cancelled single bond which covered the well designated by the above permit number to the surety company who executed said bond in your behalf, in order that they may give you credit on their records.

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above captioned well will remain under bond coverage for life of the well.

XXXXXX

Very truly yours,

Theodore M. Streit, Administrator  
Dept. Mines-Office of Oil & Gas



B-12

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
FINAL INSPECTION REQUEST  
INSPECTOR'S COMPLIANCE REPORT

**RECEIVED**

JUN 1 1 1985

OIL & GAS DIVISION  
**DEPT. OF MINES**

Permit No. 001-1692 County Barbour  
 Company J & J Enterprises, Inc. District Cove  
 Inspector PHILLIP TRACY Farm Interstate Lumber Co.  
 Date October 7, 1983 Well No. J-619 Issued 1-29-82

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification prior to starting work	<u>C</u>	<u>    </u>
25.04	Prepared before drilling to prevent waste	<u>C</u>	<u>    </u>
25.03	High-pressure drilling	<u>C</u>	<u>    </u>
16.01	Required permits at wellsite	<u>L</u>	<u>    </u>
5.03	Adequate fresh water casing *	<u>C</u>	<u>    </u>
15.02	Adequate coal casing	<u>C</u>	<u>    </u>
15.01	Adequate production casing	<u>L</u>	<u>    </u>
15.04	Adequate cement strength	<u>C</u>	<u>    </u>
23.02	Maintained access roads	<u>C</u>	<u>    </u>
25.01	Necessary equipment to prevent waste	<u>L</u>	<u>    </u>
23.03	Reclaimed drilling site	<u>C</u>	<u>    </u>
23.04	Reclaimed drilling pits	<u>L</u>	<u>    </u>
23.05	No surface or underground pollution	<u>C</u>	<u>    </u>
7.05	Identification markings	<u>C</u>	<u>    </u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

I have inspected the above well and have found it to be in compliance with the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia, and the well can be released from the permitted work.

SIGNED: *Phillip Tracy*

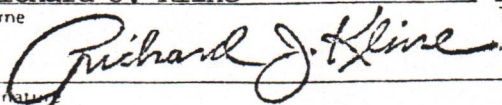
DATE: 6-5-85







FERC-121

1.0 API well number: (If not assigned, leave blank. 14 digits.)	47 - 001 - 1692 - 0000			
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 <small>Section of NGPA</small>	N/A <small>Category Code</small>		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5886 feet			
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	J & J Enterprises, Inc <small>Name</small> P.O. Box 697 <small>Street</small> Indiana, PA 15701 <small>City State Zip Code</small>			009480 <small>Seiler Code</small>
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Cove <small>Field Name</small> Barbour <small>County</small>			WV <small>State</small>
(b) For OCS wells:	N/A <small>Area Name</small>			<small>Block Number</small>
(c) Name and identification number of this well: (35 letters and digits maximum.)	J-619			
(d) 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 digits maximum. If code number not available, leave blank.)	Consolidated Gas Supply Corp. <small>Name</small>			<small>Buyer Code</small>
(b) Date of the contract:	Mo. Day Yr.			
(c) Estimated total annual production from the well:	Million Cubic Feet			
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	(a) Base Price 2.841	(b) Tax .278	(c) All Other Prices [Indicate (+) or (-).] -----
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	2.841	.278	-----
9.0 Person responsible for this application:	Richard J. Kline <small>Name</small> Secretary <small>Title</small>			
Agency Use Only				
Date Received by Juris. Agency	12/08/83 <small>Date Application is Completed</small>			
Date Received by FERC	(412) 349-6800 <small>Phone Number</small>			

01

DEC 14 1983



U.S. DEPARTMENT OF ENERGY  
Federal Energy Regulatory Commission  
Washington, D.C. 20426

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)  
(Sections 102, 103, 107 and 108)

PLEASE READ BEFORE COMPLETING THIS FORM:

General Instructions:

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA. A separate application is required for each well. If any reservoir qualifies for a category which differs from the category applicable to the producing well, separate applications must be made for the producing well and the reservoir. Complete each appropriate item on the reverse side of this page. The code numbers used in items 4.0 and 6.0 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Enter any additional remarks in the space below.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 275-4539.

Specific Instructions for Item 2.0, Type of Determination:

<u>Section of NGPA</u>	<u>Category Code</u>	<u>Description</u>
102	1	New OCS Lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1,000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS Lease
103	-	New onshore production well
107	-	High cost natural gas
108	-	Stripper well

Other Purchasers/Contracts:

<u>Contract Date</u> (Mo. Day Yr.)	<u>Purchaser</u>	<u>Buyer Code</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Remarks:



PARTICIPANTS:

DATE: FEB 23 1984

BUYER-SELLER CODE

WELL OPERATOR: J + J Enterprises, Inc.

009480

FIRST PURCHASER: Consolidated Gas Supply Corp.

004228

OTHER: \_\_\_\_\_

W. Va. Department of Mines, Oil & Gas Division  
 WELL DETERMINATION FILE NUMBER  
831214-103-001-1692  
 Use Above File Number on all Communications  
 Relating to Determination of this Well

*1500' Radius*  
*Qualifies*

**APPROVED**  
 MAR 26 1984

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 \_\_\_\_\_ Items not completed - Line No. \_\_\_\_\_
- 2. IV-1 Agent \_\_\_\_\_
- 3. IV-2 Well Permit \_\_\_\_\_
- 4. IV-6 Well Plat \_\_\_\_\_
- 5. IV-35 Well Record \_\_\_\_\_ Drilling \_\_\_\_\_ Deepening \_\_\_\_\_
- 6. IV-36 Gas-Oil Test: Gas Only \_\_\_\_\_ Was Oil Produced? \_\_\_\_\_ Ratio \_\_\_\_\_
- 7. IV-39 Annual Production \_\_\_\_\_ years
- 8. IV-40 90 day Production \_\_\_\_\_ Days off line: \_\_\_\_\_
- 9. IV-48 Application for certification. Complete? \_\_\_\_\_
- 10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? \_\_\_\_\_ Affidavit Signed \_\_\_\_\_
- 18-28. Other: Survey \_\_\_\_\_ Logs \_\_\_\_\_ Geological Charts \_\_\_\_\_  
 Structure Map \_\_\_\_\_ 1: 4000 Map \_\_\_\_\_ Well Tabulations \_\_\_\_\_  
 Gas Analyses \_\_\_\_\_
- (5) Date commenced: \_\_\_\_\_ Date completed \_\_\_\_\_ Deepened \_\_\_\_\_
- (5) Production Depth: \_\_\_\_\_
- (5) Production Formation: \_\_\_\_\_
- (5) Final Open Flow: \_\_\_\_\_
- (5) After Frac. R. P. \_\_\_\_\_
- (6) Other Gas Test: \_\_\_\_\_
- (7) Avg. Daily Gas from Annual Production: \_\_\_\_\_
- (8) Avg. Daily Gas from 90-day ending w/1-120 days \_\_\_\_\_
- (8) Line Pressure: \_\_\_\_\_ PSIG from Daily Report \_\_\_\_\_
- (5) Oil Production: \_\_\_\_\_ From Completion Report \_\_\_\_\_
- 10-17. Does lease inventory indicate enhanced recovery being done \_\_\_\_\_
- 10-17. Is affidavit signed? \_\_\_\_\_ Notarized? \_\_\_\_\_
- Does official well record with the Department confirm the submitted information? \_\_\_\_\_
- Additional information \_\_\_\_\_ Does computer program confirm? \_\_\_\_\_
- Was Determination Objected to \_\_\_\_\_ By Whom? \_\_\_\_\_



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

Date December 2, 1983  
Operator's Well No. J-419  
API Well No. 47 - 001-1192  
State PA County Indiana Permit 1192

WELL CLASSIFICATION FORM  
NEW ONSHORE PRODUCTION WELL  
MCPA Section 103

DESIGNATED AGENT James R. Willett  
ADDRESS S.W. Jack Drilling Company  
Box 48 Buckhannon, W. VA. 26201

WELL OPERATOR J & J Enterprises, Inc.  
ADDRESS P. O. Box 697  
Indiana, PA 15701  
GAS PURCHASER Cons. Gas Supply Corp.  
ADDRESS Box 2450  
Clarksburg, W. VA.

LOCATION: Elevation 1800  
Watershed Sandy Creek  
Dist. Cove County Bolton Quad. Colebank  
Gas Purchase Contract No. \_\_\_\_\_  
Meter Chart Code \_\_\_\_\_  
Date of Contract \_\_\_\_\_

\* \* \* \* \*

Date surface drilling was begun: Feb. 2<sup>nd</sup> 1982

Indicate the bottom hole pressure of the well and explain how this was calculated:

Rock Pressure: Well was shut in several days after treatment and pressure was measured with a spring gauge.

Bottom Hole Pressure static rock pressure, \_\_\_\_\_ psig (surface measurement after \_\_\_\_\_ hours shut in)  
Pf=PweXGLS  
 $t=60 + (0.0075 \times 5787) \times 459.7 = 563.1 \times \frac{1}{53.35} \times \frac{1}{56.31} = 30041.5 = 0.000033$   
Pf=700 x 2.72 (0.000033) (0.65)

AFFIDAVIT

I, James H. McElwain, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

James H. McElwain

STATE OF WEST VIRGINIA, PA  
COUNTY OF Indiana, TO WIT:

I, Vicki Vanderberg a Notary Public in and for the state and county aforesaid, do certify that J.H. McElwain, whose name is signed to the writing above, bearing date the 9<sup>th</sup> day of Dec, 1983, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 9<sup>th</sup> day of Dec, 1983. My ~~commission~~ expires on the 23 day of January, 1984.  
Commission

[NOTARIAL SEAL]



Vicki L. Vanderberg  
Notary Public

WICKI L. VANDERBERG, NOTARY PUBLIC  
INDIANA BOROUGH, INDIANA COUNTY  
MY COMMISSION EXPIRES JAN 23 1984  
Member, Pennsylvania Notary Association







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

Date December 2, 1983

Operator's Well No. J-619  
API Well No. 47 - CO1 - 4692  
State County Permit

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. \_\_\_\_\_  
(If Applicable)

WELL OPERATOR J & J Enterprises, Inc.  
ADDRESS Box 697  
Indiana, PA 15701

DESIGNATED AGENT James R. Willett  
ADDRESS S. W. Jack Drilling Co.  
Box 48, Buckhannon, W. VA. 26201

Gas Purchase Contract No. \_\_\_\_\_ and Date \_\_\_\_\_  
(Month, Day and year)

Meter Chart Code \_\_\_\_\_

Name of First Purchaser Consolidated Gas Supply Corporation  
P. O. Box 2450  
(Street or P. O. Box)  
Clarksburg, W. VA. 26301  
(City) (State) (Zip Code)

FERC Seller Code 009480 FERC Buyer Code 004228

TYPE OF DETERMINATION BEING SOUGHT:

- |                                     |  |                 |               |
|-------------------------------------|--|-----------------|---------------|
| <input checked="" type="checkbox"/> | (1) Initial determination (See FERC Form 121.)   | <u>103</u>      | <u>N/A</u>    |
| <input type="checkbox"/>            | (2) Determination that increased production is the result of enhanced recovery technology. | Section of NGPA | Category Code |
| <input type="checkbox"/>            | (3) Determination of a seasonally affected well.   |                 |               |

Richard J. Kline Secretary  
Name (Print) Title

*Richard J. Kline*  
Signature

P. O. Box 697  
Street or P. O. Box  
Indiana PA 15701  
City State (Zip Code)

412 349-6800  
Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

(All of the above to be completed by the Operator/Applicant)

(To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known).

The Department of Mines has received a request  for certification of the above described well as meeting the requirements of Section \_\_\_\_\_ under the Natural Gas Policy Act of 1978. (NGPA);  for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA);  or for determination of a seasonally affected well under Section 108 of (NGPA);

All interested parties are hereby notified that on the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard there will be a public hearing, if requested, or if objection is filed.

This Application is assigned File No. \_\_\_\_\_

Initial review of information submitted indicates the well  is.  is not entitled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter as the matter may be heard.

Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination.

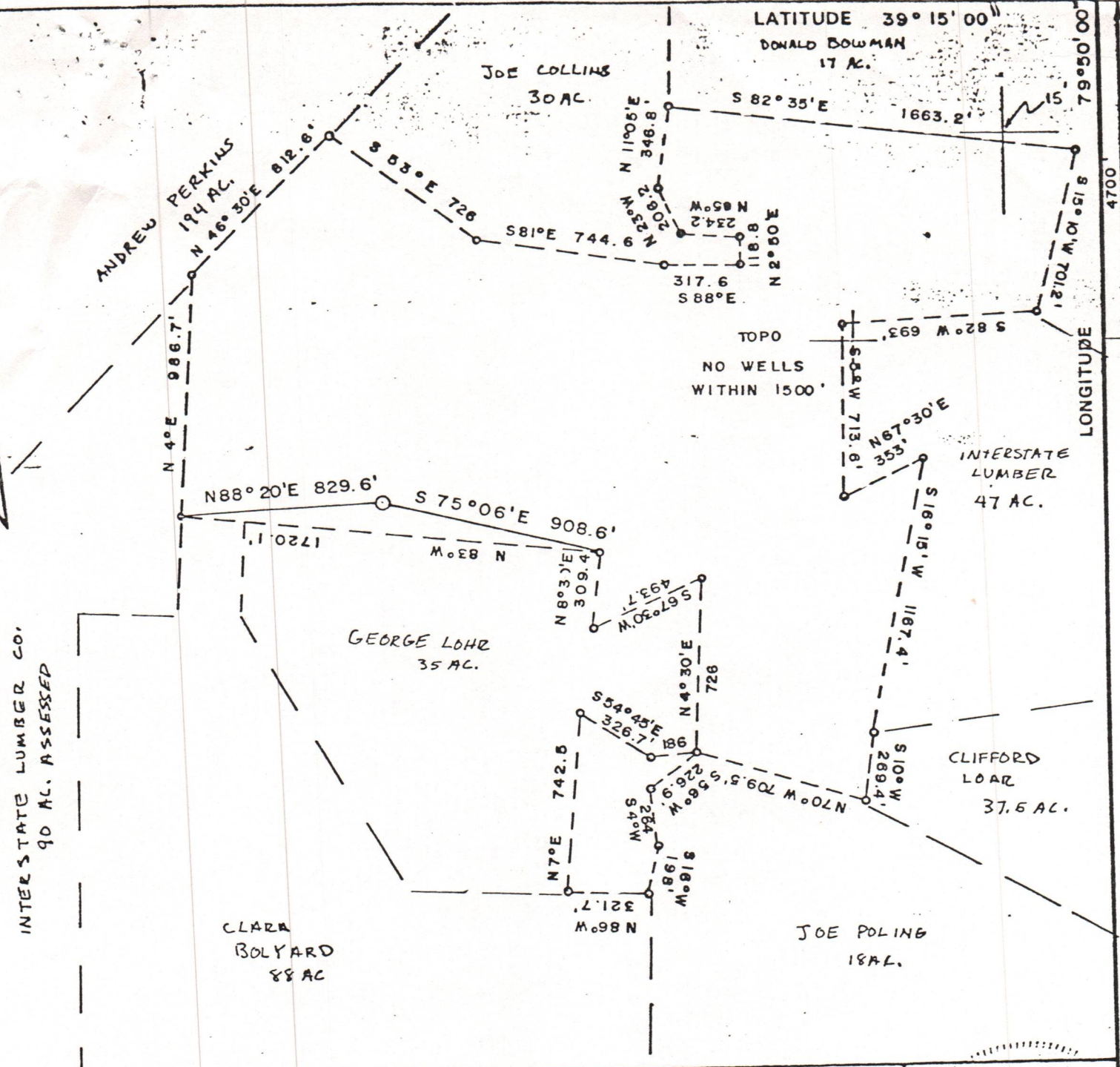
WEST VIRGINIA DEPARTMENT OF MINES

DEC 14 1983

Date received by \_\_\_\_\_  
Jurisdictional Agency

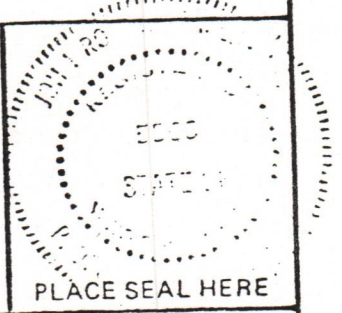
[Signature] Director  
By \_\_\_\_\_  
Title \_\_\_\_\_





FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 600'  
 MINIMUM DEGREE OF ACCURACY 1/2500  
 PROVEN SOURCE OF ELEVATION E1 of Road 1570  
 1200 EAST OF SITE

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) John Robert Yelton  
 R.P.E. 5566 L.L.S. \_\_\_\_\_



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



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE 1/11, 1982  
 OPERATOR'S WELL NO. J-619  
 API WELL NO. \_\_\_\_\_  
47 - 001 - \_\_\_\_\_  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1800 WATER SHED SANDY CREEK  
 DISTRICT COVE COUNTY BARBOUR  
 QUADRANGLE COLEBANK  
 SURFACE OWNER INTERSTATE PAPER CO ACREAGE 132.75  
 OIL & GAS ROYALTY OWNER INTERSTATE PAPER CO LEASE ACREAGE 132.75  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
 STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
 FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Fox ESTIMATED DEPTH 5900  
 WELL OPERATOR J & J ENTERPRISES INC DESIGNATED AGENT James P. Willett  
 ADDRESS BOX 48 ADDRESS P.O. Box 48  
BUCKHANNON, WV. 26201 Buckhannon, WV 26201