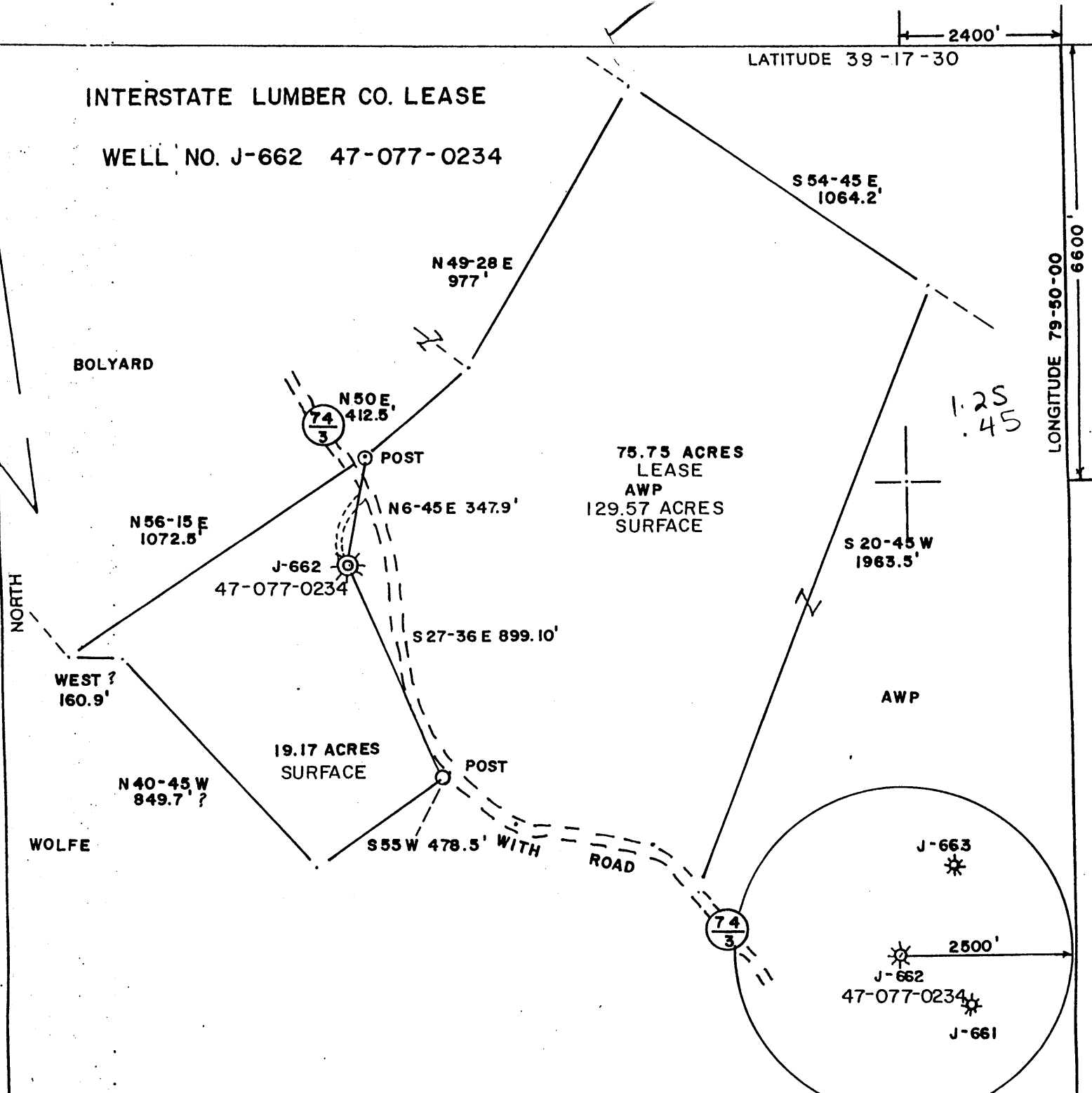


INTERSTATE LUMBER CO. LEASE

WELL NO. J-662 47-077-0234



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION JUNCT. ROADS 1415'

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 ENERGY.  
 (SIGNED) M. Allen Jerke  
 R.P.E. \_\_\_\_\_ L.L.S. 959

PLACE SEAL HERE

STATE OF WEST VIRGINIA

DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL and GAS



DATE APRIL 3, 19 99  
 OPERATOR'S WELL NO. J-662  
 API WELL NO.

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 1400' WATERSHED SANDY CREEK  
 DISTRICT RENO COUNTY PRESTON  
 QUADRANGLE FELLOWSVILLE 7.5'

SURFACE OWNER JAMES BOLYARD ACREAGE 19.17 OF 75.75  
 OIL & GAS ROYALTY OWNER INTERSTATE LUMBER CO. LEASE ACREAGE 75.75

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION Balltown ESTIMATED DEPTH 3370'  
 WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT JOHN PALETTI  
 ADDRESS 501 56th ST. CHARLESTON, WV 25304 ADDRESS BOX 820 GLENVILLE, WV 26351

MAY 24 1999

FORM WV-6

COUNTY NAME PERMIT

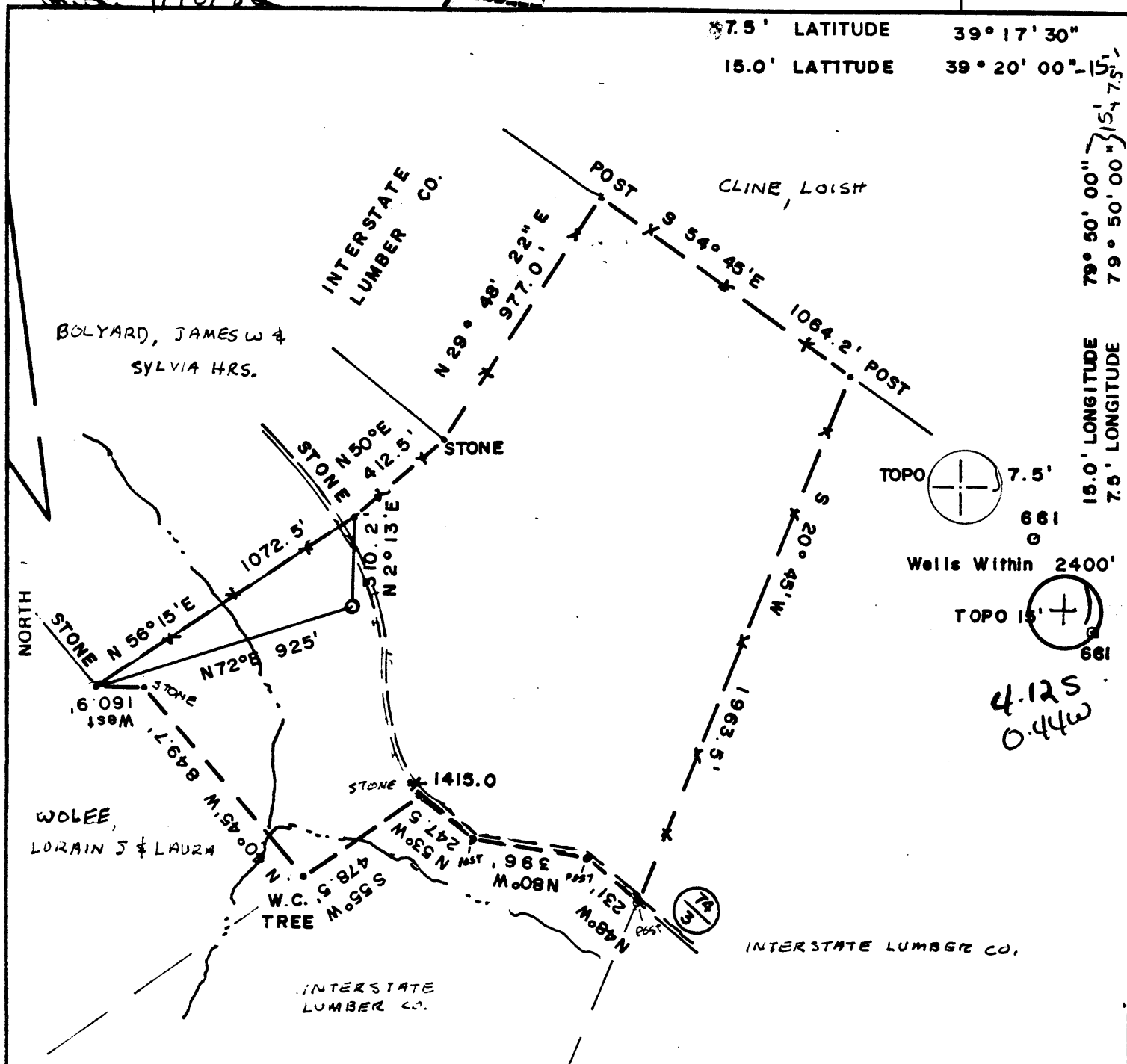
4/16/82

Card CSD

2400'

7.5' LATITUDE 39° 17' 30"  
15.0' LATITUDE 39° 20' 00"

79° 50' 00" LONGITUDE  
79° 50' 00" LONGITUDE



FILE NO. 81 - 894 - H  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1 / 200'  
PROVEN SOURCE OF ELEVATION EL. 1415 at road Intersection near S.E. P. Corner

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) [Signature]  
R.P.E. 5566 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

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



DATE 3 - 31, 19 92  
OPERATOR'S WELL NO. J - 662  
API WELL NO. \_\_\_\_\_  
47 - 077 - 0234  
STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION ELEVATION 1400 WATER SHED SANDY CREEK  
DISTRICT RENO COUNTY PRESTON  
QUADRANGLE FELLOWSVILLE 7.5' THORNTON 15.0' SC  
SURFACE OWNER INTERSTATE LUMBER COMPANY ACREAGE 75.75  
OIL & GAS ROYALTY OWNER INTERSTATE LUMBER COMPANY LEASE ACREAGE 75.75  
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 \_\_\_ 5-5 unnamed (C)  
TARGET FORMATION HAVERTY ESTIMATED DEPTH 5600  
WELL OPERATOR J & J ENTERPRISES INC. DESIGNATED AGENT HARRY L. BARNETT  
ADDRESS Box 48 ADDRESS P.O. BOX 48  
BUCKHANNON, WVA. 26201 BUCKHANNON, W.VA.

MAY 3 1992

extends Preston 224

RECEIVED  
JUL 29 1983

AUG 08 1983

Operator's Well No. J-662  
API Well No. 47-077-0234  
State County Permit

OIL & GAS DIVISION  
DEPT. OF MINES

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

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_  
(If "Gas", Production X / Underground storage \_\_\_ / Deep \_\_\_ / Shallow X /)

LOCATION: Elevation: 1400 Watershed: Sandy Creek  
District: Reno County: Preston Quadrangle: Fellowsville 7.5'

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

PERMITTED WORK: Drill X / Convert \_\_\_ / Drill deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate X  
Plug off old formation \_\_\_ / Perforate new formation \_\_\_ /  
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON 1/22, 1983

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION DETAINED)

Name William Blosser  
Address Rt. 4, Box 317  
Fairmont, WV 26564

GEOLOGICAL TARGET FORMATION: Haverty Depth 5017-5268 feet

Depth of completed well, 5642 feet Rotary X / Cable Tools \_\_\_

Water strata depth: Fresh, 30,54,84 feet; salt, 0 feet.  
90,173

Coal seam depths: 282-84 Is coal being mined in the area? No

Work was commenced 6/8, 1983, and completed 6/15, 1983

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		
Conductor	11 3/4	H-40	42	x		75	75	12 sks. Sides
Fresh water	8 5/8	ERW	23	x		967	967	265 sks
Coal	8 5/8	ERW	23	x		967	967	265 sks. Sides
Intermediate								
Production	4 1/2	J-55	10.5	x		5462.20	5462.20	525 sks. Sides set
Tubing								
Liners								Perforations:
								Top
								5017
								4402
								4190
								3902
								5268
								4906
								4223
								3988

OPEN FLOW DATA

Producing formation Haverty Pay zone depth 5017-5268

Gas: Initial open flow, \_\_\_ Mcf/d Oil: Initial open flow, \_\_\_ Bbl/d

Combined Final open flow, 311 Mcf/d Final open flow, \_\_\_ Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 1650 psig (surface measurement) after 96 hours shut in

[If applicable due to multiple completion--] 4402-4906

Second producing formation Elks, Alexander, Benson & Riley Pay zone depth 3902-3988

Gas: Initial open flow, \_\_\_ Mcf/d Oil: Initial open flow, \_\_\_ Bbl/d

Final open flow, \_\_\_ Mcf/d Final open flow, \_\_\_ Bbl/d

Time of open flow between initial and final tests, \_\_\_ hours

Bottom Hole Pressure Static rock pressure, \_\_\_ psig (surface measurement) after \_\_\_ hours shut in

Pf=PweXGLS  $\frac{1}{1} = \frac{1}{1} = 29911 = 0.0000334$  Pf=1650 x 2.72 (0.0000334)

t=60 + (0.0075 x 5462) + 459.7 = 561 t=53.35 x 561 = 29911 = 0.0000334 Pf=1650 x 2.72 (0.0000334)

(0.577) (4585) (0.9) = 1650 x 2.72 0.079 = 1650 x 1.08

Pf=1782 psi

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

Haverty: Perforations: 5017-5268 (13 holes)  
Fracturing: 6,000 lbs. 80/100 sand: 22,000 lbs. 20/40 sand: 500 gal. Acid:  
480 Bbls. fluid.

Elks: Perforations: 4402-4906 (16 holes)  
Fracturing: ,000 lbs. 80/100 sand: 31,000 lbs. 20/40 sand: 1,000 ga. Acid: 560 Bbls.  
fluid.

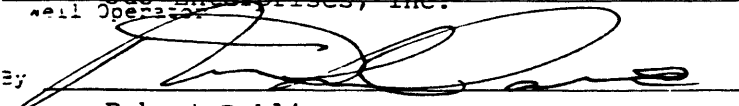
Alexander: Perforations: 4190-4223 (12 holes)  
Fracturing: 5,500 lbs. 80/100 sand: 24,000 20/40 sand: 500 gal. Acid: 420 Bbls.  
fluid.

Benson & Riley: Perforations: 3902-3988 (8 holes)  
Fracturing: 5,500 lbs. 80/100 sand: 29,000 lbs. 20/40 sand: 750 gal. Acid:  
480 Bbls. fluid.

ELL 103

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Conductor			0	59	1/2" stream @ 30'
Sand & Black Shale			59	132	
Red rock, sandy shale & sand			132	282	2 to 3" stream @ 54'
Coal			282	284	
Sand, sandy shale & shale			284	465	3" stream @ 84'
Sand, sandy shale & red rock			465	875	1" stream @ 90'
Sandy shale & sand			875	1000	2" stream @ 173'
Shale, red rock & sand			1000	1160	Gas ck @ 1455' No show
Sand & lime			1160	1170	
Shale & red rock			1170	1189	Gas ck @ 2031' No show
Sand & lime			1189	1205	
Shale			1205	1210	Gas ck @ 2540' No show
Big Lime & Injun			1210	1420	
Sand & shale			1420	1555	Gas ck @ 2957' No show
Gantz			1555	1705	
Shale, sand & red rock			1705	3120	Gas ck @ 3504' No show
Sand & shale			3120	3902	
Benson & Riley			3902	3988	Gas ck @ 3984' No show
Sandy shale			3988	4190	
Alexander			4190	4223	Gas ck @ 4078' No show
Sand & sandy shale			4223	4402	Gas ck @ 5003' No show
Elks			4402	4906	
Sand & shale			4906	5017	
Haverty			5017	5268	
Shale & sand			5268	5505	
Shale			5505	5642	
				T.D.	Brallier @ T.D.

(Attach separate sheets as complete as necessary.)

J&J Enterprises, Inc.  
Well Operator  
By   
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."



1) Date: February 18, 19 83  
 2) Operator's Well No. J-662  
 3) API Well No. 47 State 077 County 0234-AR Permit

DRILLING CONTRACTOR:

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

RENEWAL - OLD NO. 0234

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil          / Gas x         /  
 B (If "Gas", Production x         / Underground storage          / Deep          / Shallow          /)
- 5) LOCATION: Elevation: 1400 Watershed: Sandy Creek  
 District: Reno County: Preston Quadrangle: Fellowsville 7.5
- 6) WELL OPERATOR J&J Enterprises, Inc. 11) DESIGNATED AGENT Richard M. Sollerhoff  
 Address P.O. Box 48 Address P.O. Box 48  
Buckhannon, WV 26201 Buckhannon, WV 26201
- 7) OIL & GAS ROYALTY OWNER Interstate Lumber Co. 12) COAL OPERATOR None  
 Address 601 E. Main St. Address           
Kingswood, WV 26537
- 8) SURFACE OWNER Interstate Lumber Co. 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Address 601 E. Main St. Name Eastern Associated Coal Corp  
Kingswood, WV 26537 Address Koppers Building  
         Pittsburgh, Pa. 15219  
 Name           
 Address
- 9) FIELD SALE (IF MADE) TO:  
 Address Unknown
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name William Blosser  
 Address Rt. 4, Box 317  
Fairmont, WV 26564
- 15) PROPOSED WORK: Drill x         / Drill deeper          / Redrill          / Fracture or stimulate x         /  
 Plug off old formation          / Perforate new formation          /  
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Haverty
- 17) Estimated depth of completed well, 5600 feet
- 18) Approximate water strata depths: Fresh, 140 feet; salt, None feet.
- 19) Approximate coal seam depths: 330 Is coal being mined in the area? Yes          / No x

20) 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	B-40	42	x		30	0	0 lbs.	Kinds
Fresh water	8 5/8	SMW	23	x		1400	1400	To surface	
Coal	8 5/8	SMW	23	x		1400	1400	To surface	Sizes
Intermediate									
Production Tubing	4 1/2	J-55	10.5	x		5550	5550	400 lbs.	Depths set
Liners									Perforations:
									Top Bottom

21) EXTRACTION RIGHTS

- Check and provide one of the following:  
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) 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.

Notary: Linda S. Cayfield  
 My Commission Expires October 16, 1989

Signed:           
 Its: Designated Agent

OFFICE USE ONLY  
DRILLING PERMIT

Permit number          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 requirements 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. 10) 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 district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires October 22, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
-------	--------	-------	--------	-----

Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.  
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
  - (1) A brief description of the tract of land including the district and county wherein the tract is located;
  - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
  - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
  - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) 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.
- 24) 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.

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.

WAIVER

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: \_\_\_\_\_, 19\_\_\_\_\_

By \_\_\_\_\_

Its \_\_\_\_\_

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-662

API Well No. 47 - 077 - 0234  
State County Permit

WELL TYPE: Oil      / Gas   x   /  
(If "Gas", Production   x   / Underground storage      / Deep      / Shallow   x   /)  
LOCATION: Elevation: 1400 Watershed: Sandy Creek  
District: Reno County: Preston Quadrangle: Fellowsville 7.5'

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

DESIGNATED AGENT Harry L. Barnett  
Address P.O. Box 48  
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Interstate Lumber Co.  
Address 601 E. Main St.  
Kingwood, WV 26537

COAL OPERATOR \_\_\_\_\_  
Address: \_\_\_\_\_

ACREAGE 75.75  
SURFACE OWNER Interstate Lumber Co.  
Address 601 E. Main St.  
Kingwood, WV 26537  
ACREAGE 75.75

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

FIELD SALE (IF MADE) TO:  
Name Unknown  
Address \_\_\_\_\_

Name \_\_\_\_\_  
Address \_\_\_\_\_

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name William Blosser  
Address Rt. # 4, Box 317  
Fairmont, WV 26564

COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
**RECEIVED**  
APR 16 1982

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

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 Sheldon & Sheldon, Inc.

[If said deed, lease, or other contract has been recorded:]  
Recorded on 12/28, 1981, in the office of the Clerk of the County Commission of Preston County, West Virginia, in Assignment Book 4 at page 53. 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 DONE**

J&J Enterprises, Inc.  
Well Operator  
Peter Bartles  
By \_\_\_\_\_  
Its Geologist

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, Haverty

Estimated depth of completed well, 5600 feet Rotary x / Cable tools     

Approximate water strata depths: Fresh, 140 feet; salt, None feet.

Approximate coal seam depths: 330 Is coal being mined in the area? Yes      / No x

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		1400	1400	To surface	
Coal	8 5/8	ERW	23	x		1400	1400	To surface	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5550	5550	400 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 PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,  
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY  
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE  
IF OPERATIONS HAVE NOT COMMENCED BY 12-28-82

BY [Signature]

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:     , 19     

By       
Its