

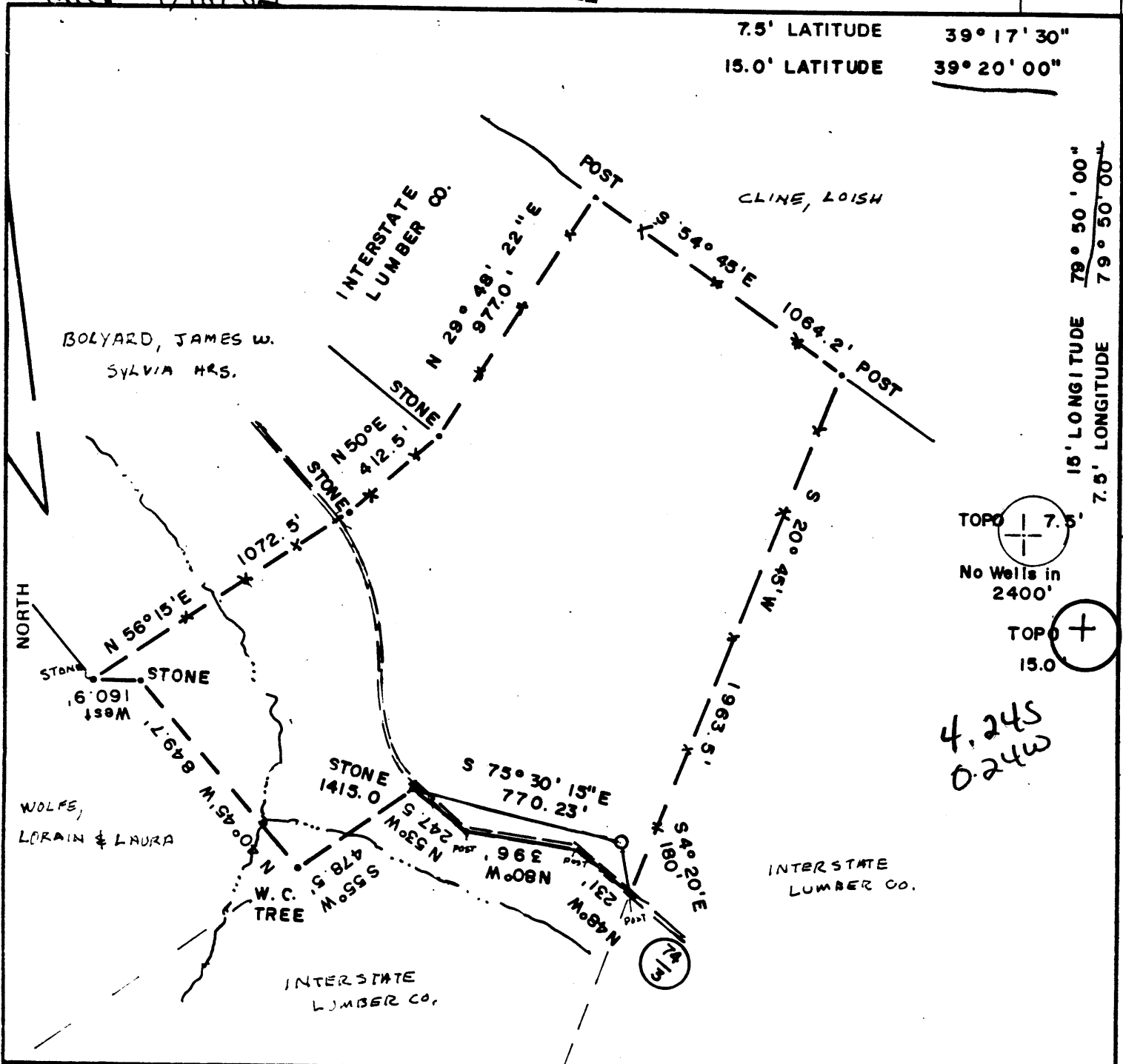
Min. 4/16/82

Card CSD

1400'

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

15' LONGITUDE 79° 50' 00"  
7.5' LONGITUDE 79° 50' 00"



TOPO 7.5'  
No Wells in 2400'  
TOPO 15.0'  
4,245  
0.24W

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)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

DATE 3 - 31, 19 92  
OPERATOR'S WELL NO. J - 661  
API WELL NO. 47 - 077 - 0233  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
LOCATION: ELEVATION 1450 WATER SHED SANDY CREEK  
DISTRICT RENO COUNTY PRESTON  
QUADRANGLE FELLOWSVILLE 7.5' THORNTON 15.0' 9C  
SURFACE OWNER INTERSTATE LUMBER COMPANY ACREAGE 75.75  
OIL & GAS ROYALTY OWNER INTERSTATE LUMBER COMPANY LEASE ACREAGE 75.75  
LEASE NO. \_\_\_\_\_  
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 HAVERTY ESTIMATED DEPTH 5600 offsets 224  
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 1982

JUN 28 1983

OIL & GAS DIVISION  
DEPT. OF MINES, OIL AND GAS DIVISION

JUL 11 1983

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATION, OR PHYSICAL CHANGE

WELL TYPE: Oil \_\_\_ / Gas X / Liquid Injection \_\_\_ / Waste Disposal \_\_\_  
(If "Gas", Production X / Underground storage \_\_\_ / Deep \_\_\_ / Shallow X /)  
LOCATION: Elevation: 1450 Watershed: Sandy Creek  
District: Reno County: Preston Quadrangle: Fellowsville 7

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  
Plug off old formation \_\_\_ / Perforate new formation \_\_\_ /  
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON 4/16, 1982 OIL & GAS INSPECTOR FOR THIS WORK:  
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name William Blosser  
Address Rt. # 4, Box 317  
Fairmont, WV 26564

GEOLOGICAL TARGET FORMATION: Haverty Depth \_\_\_\_\_ feet  
Depth of completed well, 5543 feet Rotary X / Cable Tools \_\_\_  
Water strata depth: Fresh 55,590 feet; salt, 0 feet.  
Coal seam depths: 2-75, 80-85, 312-17, 406-10 Is coal being mined in the area? No  
Work was commenced 6/21, 1982, and completed 6/29, 1982

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	113/4	H-40	42	x		21	0	0 sks.	Kinds
Fresh water	85/8	ERW	23	x		1204	1204	320 sks.	
Coal	85/8	ERW	23	x		1204	1204	320 sks.	Sizes
Intermediate									
Production Tubing	4 1/2	J-55	10.5	x		4365.95	4365.95	370 sks.	Depth set
Liners									Perforations:
									Top
									Bottom
									4266 4270
									4057 4058
									3274 3284
									3042 3046

OPEN FLOW DATA

Producing formation BK Alexander Pay zone depth 4266-70  
Gas: Initial open flow, \_\_\_ Mcf/d Oil: Initial open flow, \_\_\_ Bbl/d  
Combined Final open flow, 133 Mcf/d Final open flow, \_\_\_ Bbl/d  
Time of open flow between initial and final tests, 4 hours  
Static rock pressure, 825 psig (surface measurement) after 96 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation Benson, 1st & 2nd Balltown Pay zone depth 3042-46  
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  
t=60+(0.0075 x 4366) + 459.7=552 X=53.35 x 552 =29473 =0.0000339 Pf=825 x 2.72 (0.0000339)  
(0.680) (3771) (0.9) =825 x 2.72 (0.078) Pf=825 x 1.08  
Pf= 892 psi

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

*Alexander*

Elk & Benson: Perforations: 4266-70 (6 holes) 4057-58 (3 holes)  
Fracturing: 10,000 lbs. 80/100 sand: 40,000 lbs. 20/40 sand:  
500 gal. Acid: 640 Bbls. fluid.

1st. & 2nd Balltown: Perforations: 3274-84 (10 holes) 3042-46(10 holes)  
Fracturing: 1st. 7500 lbs. 80/100 sand: 50,000 lbs. 20/40 sand:  
500 gal acid: 395 Bbls. fluid.

2nd. 7500 lbs. 80/100 sand: 35,000 20/40 sand:  
500 gal. Acid: 395 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	26	Damp @ 55'
Sand			26	72	
Coal			72	75	1" stream @ 590'
Sand & sandy shale			75	180	Gas ck @ 1450 no show
Coal			180	185	
Sand, shale & sand			185	312	Gas ck @ 2165 no show
Coal			312	317	
Sand			317	406	Gas ck @ 2565 no show
Coal			406	410	
Sandy shale			410	440	Gas ck @ 2935 no show
Coal			440	452	
Sandy shale & sand			452	905	Gas ck @ 3095 no show
Sandy shale & red rock			905	995	
Sand, shale & red rock			995	1045	Gas ck @ 3740 no show
Sand & red rock			1045	1120	
Sand, shale & red rock			1120	1237	Gas ck @ 3985 no show
Sandy shale			1237	1275	
Big Lime			1275	1340	Gas ck @ 4730 no show
Sand & sandy Shale			1340	1620	
Sandy shale & sand			1620	2505	
Sandy shale & sand			2505	3042	
1st and 2nd Balltown			3042	3284	
Sandy shale & sand			3284	3870	
Brown sand			3870	4057	
Elk & Benson			4057	4270	
Sand & shale			4270	4965	
Sandy shale			4965	5325	
Dark shale			5325	5385	
Sandy shale			5385	5543	

*Brattin T.D.*

T.D.

(Attach separate sheets as complete as necessary)

J&J Enterprises, Inc.  
Well Operator  
By *[Signature]*  
Robert Dahlin Geologist

NOTE: Regulation 2.12(f) 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."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-661

API Well No. 47 - 077 - 023  
State County Perm.

WELL TYPE: Oil  / Gas   
(If "Gas", Production  / Underground storage  / Deep  / Shallow )

LOCATION: Elevation: 1450 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 East Main St.  
Kingwood, WV 26537

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

Acreage 75.75

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

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

Acreage 75.75

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  / 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  / Drill deeper  / Redrill  / Fracture or stimulate  /  
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 Battles  
Its Geologist

[08-78]

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, 150 feet; salt, None feet.

Approximate coal seam depths: 340 Is coal being mined in the area: \_\_\_\_\_

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 <sup>3</sup> / <sub>4</sub>	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 <sup>5</sup> / <sub>8</sub>	ERW	23	x		1400	1400	To surface	
Coal	8 <sup>5</sup> / <sub>8</sub>	ERW	23	x		1400	1400	To surface	Sizes
Intermediate									
Production	4 <sup>1</sup> / <sub>2</sub>	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 drilling 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 \_\_\_\_\_