



FILE NO. 81-871-0  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1/2500  
 PROVEN SOURCE OF ELEVATION EL. 2308 ON CO. RD. (3/10) 2800' EAST OF WELL SITE AT STRIP ROAD.

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) \_\_\_\_\_  
 R.P.E. 5566 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

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

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP  SHALLOW \_\_\_  
 LOCATION: ELEVATION 2125.0 WATER SHED CHEAT RIVER  
 DISTRICT PORTLAND COUNTY PRESTON  
 QUADRANGLE CUZZART Bruneton Hills 15'Sc  
 SURFACE OWNER INTERSTATE LUMBER CO. ACREAGE 420  
 OIL & GAS ROYALTY OWNER INTERSTATE LUMBER CO. LEASE ACREAGE 420  
 LEASE NO. I-12  
 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  
 WELL OPERATOR J&J ENTERPRISES INC. DESIGNATED AGENT HARRY L. BARNETT  
 ADDRESS P.O. BOX 48 ADDRESS P.O. Box 48  
BUCKANNON W. VA. 26201 Buckhannon, WV 26201

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE FEB. 24, 1982  
 OPERATOR'S WELL NO. J-623  
 API WELL NO. \_\_\_\_\_  
47 - 077 - 0220  
 STATE COUNTY PERMIT

APR 2 0 1982

**RECEIVED**  
**MAY 28 1982**

**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  / Liquid Injection  / Waste Disposal   
(If "Gas", Production  / Underground storage  / Deep  / Shallow   
LOCATION: Elevation: 2125 Watershed: Cheat River  
District: Portland County: Preston Quadrangle: Cuzzart

WELL OPERATOR J&J Enterprises, Inc. DESIGNATED AGENT Harry L. Barnett  
Address P.O. Box 48 Address P.O. Box 48  
Buckhannon, WV 26201 Buckhannon, WV 26201

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

PERMIT ISSUED ON 3/16, 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, 3723 feet Rotary  / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh, 200, 515 feet; salt, None feet.  
Coal seam depths: 125-28, 180-84 Is coal being mined in the area? No  
Work was commenced 3/18, 1982, and completed 3/24, 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	11 3/4	H-40	42	x		30	0	0 sks.	None
Fresh water	8 5/8	ERW	23	x		994	994	365 sks.	
Coal	8 5/8	ERW	23	x		994	994	365 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		3415	3415	550 sks.	Depths set
Tubing									
Liners									Perforations:
									Top Bottom
									3302 3356
									1385 1455
									1194 1303

OPEN FLOW DATA  
Producing formation Balltown Pay zone depth 3302-3356 feet  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
Combined Final open flow, 110 Mcf/d Final open flow, \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests, 4 hours  
Static rock pressure, 760 psig (surface measurement) after 96 hours shut in

[If applicable due to multiple completion--]  
Second producing formation Weir & Injun Pay zone depth 1194-1303 feet  
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  
 $t=60+(0.0075 \times 3415)+459.7=545$   $X=53.35 \times 545=29092$   $=0.000344$  Pf=760x2.72 (0.000344) (0.650)  
 $(2330)(0.9)=760 \times 2.72^{0.047}=760 \times 1.05$

Pf=796 psi

**JUN 2 1982**

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

Balltown: Perforations: 3002-3356 (15 holes)

Fracturing: 150 sks. 80/100 sand: 280 sks. 20/40 sand: 500 gal. Acid.:  
500 Bbls. fluid.

Weir: Perforations: 1385-1455 (9 holes)

Fracturing: 100 sks. 80/100 sand: 280 sks. 20/40 sand: 500 gal. Acid.:  
500 Bbls. fluid.

Injun: Perforations: 1194-1303 (13 holes)

Fracturing: 150 sks. 80/100 sand: 280 sks. 20/40 sand: 500 gals. Acid: 500 Bbls.  
Fluid.

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	42	
Sand & shale			42	80	
White sand			80	105	Damp @ 90'
Red rock & shale			105	125	
Coal			125	128	1" stream @ 200'
Sand & shale			128	180	
Coal			180	184	1½" stream @ 515'
Sand & shale			184	215	
Coal			215	217	Gas ck @ 1845 No show
Sand & shale			217	340	
Sand, shale & soft sand			340	540	Gas ck @ 2183 No show
Red rock, sand & shale			540	605	
Red rock, sand & shale			605	710	Gas ck @ 3199 No show
Red rock & sand			710	845	
Red rock & sand			845	875	Gas ck @ 3375 6/10-¼" w/water 1152 cu.ft.
Lime			875	940	
Sand & shale			940	950	
Red rock, sand & shale			950	960	
Lime & sand			960	1000	
Red rock, sand & shale			1000	1194	
Injun			1194	1303	
Shale			1303	1315	
Sand			1315	1385	
Weir			1385	1455	
Sand & shale			1455	1845	
Sand & shale			1845	2900	
Sand & shale			2900	3002	
Balltown			3002	3356	
Shale			3356	3723	
				TD	

(Attach separate sheets to complete as necessary)

J&J Enterprises, INC.  
Well Operator

By Peter Battles Geologist

Its

NOTE: Regulation 2.02(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-623

API Well No. 47 - 077 - 0220  
State County Permit

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

LOCATION: Elevation: 2125 Watershed: Cheat River  
District: Portland County: Preston Quadrangle: Cuzzart

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 Donald Frazee  
Address C/O Interstate Lumber CO.  
601 E. Main St.  
Kingwood, WV 26537

COAL OPERATOR None  
Address

ACREAGE 420  
SURFACE OWNER Maxine & Wilmoth Feather  
Address Albright, West Va.  
26519  
ACREAGE 105

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Interstate Lumber CO.  
Address 601 E. Main St.  
Kingwood, WV 26537  
Name  
Address

FIELD SALE (IF MADE) TO:  
Name Unknown  
Address

COAL LESSEE WITH DECLARATION ON RECORD:  
Name None  
Address

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

RECEIVED

MAR 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 S & S, 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 Oil & Gas Lease Book 4 at page 53. A permit is requested to allow:

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 application to mine or any required to mine by Code § 20-2-3 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  
615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

BLANKET BOND

J & J Enterprises, Inc.

Well Operator

By [Signature]  
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 Hole tools \_\_\_\_\_

Approximate water strata depths: Fresh, 125 feet; salt, 1050 feet.

Approximate coal seam depths: 350 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	1 3/4	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1500	1500	to surf.	
Coal	8 5/8	ERW	23	x		1500	1500	to surf.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5550	5550	425 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 11-17-82.

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 \_\_\_\_\_