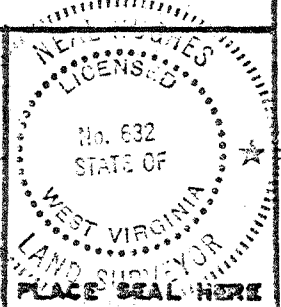


FILE NO. H-1
 DRAWING NO. 3
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM 850

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) Neal Hughes
 R.P.E. _____ L.L.S. 632



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



DATE JAN 6, 19 81
 OPERATOR'S WELL NO. J83
 API WELL NO. 47-017-2972
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____)
 LOCATION: ELEVATION 1343' WATER SHED LITTLE FLINT RUN
 DISTRICT GRANT COUNTY DODDRIDGE
 QUADRANGLE SMITHBURG 7 1/2' CP 15' WC
 SURFACE OWNER D. BEASLEY AND H. KNIGHT ACREAGE 133
 OIL & GAS ROYALTY OWNER H. KNIGHT LEASE ACREAGE 202.63
 LEASE NO. H-1
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE PLUS OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUS AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION BENSON ESTIMATED DEPTH 5550
 WELL OPERATOR J-T ENTERPRISES DESIGNATED AGENT H.L. BARNETT
 ADDRESS P.O. BOX 48 BUCHANNOX 26201 W. VA. ADDRESS P.O. BOX 48 BUCHANNOX 26201 W. VA.

6-6 Smithton-Flint Sedalia (99)

MAR 23 1981

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 X / Gas / Liquid Injection / Waste Disposal
(If "Gas", Production X / Underground storage / Deep / Shallow X)
LOCATION: Elevation: 1343 Watershed: Little Flint Run
District: Grant County: Doddridge Quadrangle: Smithburg 7.5'

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

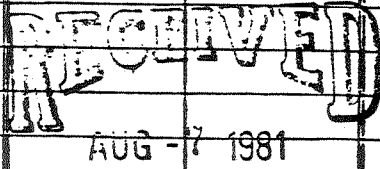
PERMITTED WORK: Drill x / Convert / Drill deeper / Redrill / Fracture or stimulate x
Plug off old formation / Perforate new formation
Other physical change in well (specify)

PERMIT ISSUED ON 2/13, 19 81 OIL & GAS INSPECTOR FOR THIS WORK:
Name Stephen Casey
Address Rt. # 2, Box 232-D
Jane Lew, WV 26378

GEOLOGICAL TARGET FORMATION: Benson Depth 4966-5405 feet
Depth of completed well, 5600 feet Rotary X / Cable Tools
Water strata depth: Fresh, 1795 feet; salt, 1750-1810 feet.
Coal seam depths: 0 Is coal being mined in the area? NO
Work was commenced 6/14, 19 81, and completed 6/14, 19 81

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		32	32	0 sks.	Rinds
Fresh water	8 5/8	ERW	23	x		1834.05	1834.05	430 sks.	
Coal	8 5/8	ERW	23	x		1834.05	1834.05	430 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5501.10	5501.10	240 sks.	Centers set
Tubing									
Liners									Perforations:
									Top Bottom
									5420 5422
									4962 4966



OPEN FLOW DATA OIL & GAS DIVISION
DEPT. OF MINES
Producing formation Benson Pay zone depth 5420-22 feet
Gas: Initial open flow, Mcf/d Oil: Initial open flow, Bbl/d
Combined Final open flow, 381 Mcf/d Final open flow, Bbl/d
Time of open flow between initial and final tests, 6 hours
Static rock pressure, 1550 psig (surface measurement) after hours shut in
[If applicable due to multiple completion--]

Second producing formation Riley Pay zone depth 4962-66 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

STATIC HOLE PRESSURE Static rock pressure, 1 psig (surface measurement) after 1 hours shut in
1550 e=2.72 x =53.34(T) =53.34 (561) =29924 ±0.0000334 T=60 + (5501 x 0.0075) +459.7 T=561 x=
0000334 G=6.00 L=5192 G=0.9 Pf= 1550x2.72 (0.0000334) (0.60) (5192) (0.9) =1550 x 2.72 0.094=
50 x 1.098 = Pf=1702

AUG 24 1981

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

Benson: Perforations: 5420-22 (9 holes)

Fracturing: 10,000 lbs. 80/100 sand: 28,000 lbs. 20/40 sand: 250 lbs. Citric Acid:
300 Bbls. fluid.

Riley: Perforations: 4962-66 (12 holes)

Fracturing: 10,000 lbs. 80/100 sand: 28,000 lbs. 20/40 sand: 500 gal. Acid.
300 Bbls. fluid.

Well 103

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Red shale			0	15	
Sand & red rock			15	40	Damp @ 815'
Sand & shale			40	190	Damp @ 1330'
Red rock, shale & sand			190	275	Damp @ 1400'
Red rock & shale			275	335	Damp @ 1390'
Red rock			335	340	
Sand & grey shale			340	410	
Red rock, sand & shale			410	525	
Black shale			525	532	1/4" water @ 1795'
Sand & shale			532	560	Oil @ 2480'
Red rock, sand & shale			560	650	
Red rock, sand & shale			650	785	Gas ck @ 4254 2/10-1/2" w/water 2,533 cu.ft.
Sand, shale & red rock			785	905	
Grey shale			905	1030	Gas ck @ 5397 2/10-1/2" w/water 2,533 cu.ft.
Sand & shale			1030	1051	
Sand, shale & red rock			1051	1090	Gas ck @ 5428 No show
White sand			1090	1120	
Shale & red rock			1120	1215	
Shale & red rock			1215	1310	
Shale, sand & red rock			1310	1400	
Sand & shale			1400	1750	
Salt sand			1750	1810	
Sand & shale			1810	2240	
Red rock, sand & shale			2240	2295	
Big Lime			2295	2372	
Big Injun			2372	2510	
Sand & shale			2510	4962	
Riley			4962	4966	
Sand & shale			4966	5405	
Benson			5405	5422	
Sand & shale			5422	5600	
				TD	

(Attach separate sheets as complete as necessary.)

J & J Enterprises, Inc.

Well Operator

By

Peter Battles

Is

Geologist

NOTE: Regulation 2.02(c) 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-83

API Well No. 47-017-2972
State County Perm

WELL TYPE: Oil / Gas /
(If "Gas", Production / Underground storage / Deep / Shallow /)
LOCATION: Elevation: 1343 Watershed: Little Flint Run
District: Grant County: Doddridge Quadrangle: Smithburg 7.5'

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

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

OIL & GAS ROYALTY OWNER H. Knight
Address 4208 Thornapple Lane
Charleston, WV 25312

COAL OPERATOR None
Address _____

ACREAGE 02.83
SURFACE OWNER D. Beasley / H. Knight
Address P.O.Box 696 / 4208 Thornapple Lane
Claremore, Okla Charleston, WV
74017 25312
ACREAGE 133

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Henry Knight
Address 4208 Thornapple Lane
Charleston, WV 25312

FIELD SALE (IF MADE) TO:
Name Unknown
Address _____

Name _____
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Stephen Casey
Address Rt. # 2, Box 232-D
Jane Lew, WV 26378

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated 7/30, 1979, to the undersigned well operator from Justin M. Henderson

[If said deed, lease, or other contract has been recorded:]
Recorded on 2/28, 1980, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Lease, Book 114 at page 349. A permit is requested as follows:

PROPOSED WORK: DrilM / 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.

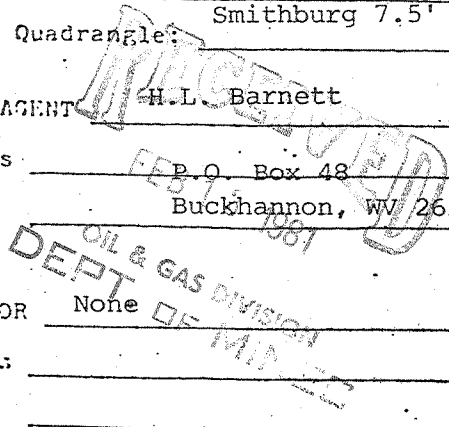
The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 20-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

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
600 WASHINGTON STREET EAST
CHARLESTON, WV 25301

J & J Enterprises, Inc.
Well Operator
By: [Signature]
Date: _____

BLANKET BOND



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 Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Benson

Estimated depth of completed well, 5550 feet Rotary X / Cable tools /
Approximate water strata depths: Fresh, 125 feet; salt, 1200 feet.
Approximate coal seam depths: none Is coal being mined in the area? Yes No X

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, 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 § 22-4-2a 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 a part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

All provisions 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 10-17-81

[Signature]
Deputy Director - Oil & Gas Division

The following waiver must be provided 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