



FILE NO. _____
 DRAWING NO. 19/39-44
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION J. & J. ENTERPRISES
WELL # K-1) ELEV. - 1156'

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) Donal S. Wheeler
 R.P.E. _____ L.L.S. 530

PLACE SEAL HERE

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



DATE MARCH 14 19 80
 OPERATOR'S WELL NO. J-233
 API WELL NO. 47-017-2626
 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 940' WATER SHED CLAYLICK RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE
 QUADRANGLE WEST VIRGINIA 15' 50 15
 SURFACE OWNER DODDRIDGE COUNTY DEVELOPMENT CORP ACREAGE 8.67
 OIL & GAS ROYALTY OWNER COUNTY COMMISSION - DODDRIDGE CO LEASE ACREAGE 237
 LEASE NO. H-18
 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 ALEXANDER ESTIMATED DEPTH 5,400'
 WELL OPERATOR J. & J. ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT
 ADDRESS P.O. BOX 48 BUCKHARTWOOD, W. VA. 26201 ADDRESS P.O. BOX 48 BUCKHARTWOOD, W. VA. 26201

APR 15 1980

Date: 4-14, 19 80

Operator's Well No. J-233

API Well No. 47-017-2626
State County Permit

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

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Dispos. ___
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X)
LOCATION: Elevation: 940 Watershed: Clay Lick Run
District: Central County: Doddridge Quadrangle: West Union

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT H.L. Barnett
Address Box 48 Address 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 3-17, 19 80

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED _____, 19 _____)

OIL & GAS INSPECTOR FOR THIS WORK:

Name Paul Garrett
Address 321 Beech St.
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5180-5225 feet
Depth of completed well, 5373 feet Rotary X / Cable Tools ___
Water strata depth: Fresh, 545 feet; salt, 0 feet.
Coal seam depths: 0 Is coal being mined in the area? NO
Work was commenced 3-25, 19 _____, and completed 3-31, 19 80

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILLING OR SACKS (Cubic Feet)	REMARKS
	Size	Grade	Weight per ft.	New	Used	For drilling		
Conductor	13/4H-40	42	X			30	0	0 sacks None
Fresh water	85/8ERW	23	X			1546.25	1546.25	385 sks.
Coal	85/8ERW	23	X			1546.25	1546.25	385 sks.
Intermediate								
Production	41/2J-55	10.5	X			5283.50	5283.50	310 sks. casing set
Tubing								
Liners								
								Perforations:
								4902' 4904'
								5190' 5210'
								3804' 3908'
								5190' 5210'

OPEN FLOW DATA

Producing formation Alexander & Benson Pay zone depth 4902-4904
5190-5210

Gas: Initial open flow, Show Mcf/d Oil: Initial open flow, ___ Bbl/d
Combined Final open flow, 582,000 Mcf/d Final open flow, ___ Bbl/d

Time of open flow between initial and final tests, 14 hours

Static rock pressure, 1400 psig (surface measurement, after 48 hours shut in)

(If applicable due to multiple completion--)

Second producing formation Riley & Balltown Pay zone depth 3804-3908
4394-4500

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 rock pressure, ___ psig (surface measurement, after ___ hours shut in)

STAGES OF PERFORATED INTERVALS, FRACTURING OF THE WELLBORE, PHYSICAL CHANGE, ETC.

Alexander - Perforations: 5190-5210 (16 holes)
 Fracturing: 500 gal. Acid: 15,000 lbs. Sand 80/100 wire mesh:
 30,000 lbs. Sand 20/40 wire mesh: 488 Ebls. fluid.

Benson & Riley - Perforations: 4394-4405 (4 holes) 4496-4500 (2 holes)
 4902-04 (6 holes)
 Fracturing: 500 gal. Acid, 15,000 lbs. Sand 80/100 wire me
 30,000 lbs. Sand 20/40 wire mesh: 483 Ebls. Fluid

Balltown - Perforations: 3804-3908 (13 holes): 4022-24 (2 holes)
 Fracturing: 500 gal. Acid: 20,000 lbs. Sand 80/100 wire mesh:
 40,000 lbs. Sand 20/40 wire mesh, 577 Ebls. Fluid.

FORMATION	Color	Hard- Spot	Top Feet	Bottom Feet	Including the interval between sand and water
Clay			0	10	
Sand & Shale			10	50	Damp @ 50'
Sand			50	120	
Sand & Shale			120	474	1/2" Stream water @ 200'
Sand, Shale & Red Rock			474	875	1" Stream water @ 545'
Sand & Shale			875	1505	
Sand			1505	1530	
Sandy Shale			1530	1930	
Big Lime			1930	2030	
Big Injun			2030	2078	
Sand & Shale			2078	3300	
Speechley			3300	3410	
Sand & Shale			3410	3802	
Balltown			3802	3912	
Sand & Shale			3912	4385	
Riley			4385	4516	
Sand & Shale			4516	4902	
Benson			4902	4906	
Sand & Shale			4906	5162	
<u>Alexander</u>			5162	5232	
Shale			5632	5373	Gas @ 5373 6/10 thru 1" w/ water

Gas @ 5373 6/10 thru 1" w/
water
T.D. 5373

Attach separate sheets or displays as necessary.

J & J Enterprises, Inc.
 Well Operator
Peter Battles
 Peter Battles
 Geologist

The term "log" as used in this report means a record of the operations, conditions, and results of the well.

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-233
API Well No. 47-017-2626
State County Per

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

LOCATION: Elevation: 940 Watershed: Clay Lick Run
District: Central County: Doddridge Quadrangle: West Union

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

OIL & GAS ROYALTY OWNER Doddridge Co. Commission
Address West Union Courthouse
West Union, WV 26456

COAL OPERATOR None
Address _____

ACREAGE _____

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Doddridge Co. Commission
Address West Union Courthouse
West Union, WV 26456

SURFACE OWNER Doddridge Co. Commission
Address West Union Courthouse
West Union, WV 26456

Name _____
Address _____

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name NONE
Address MAR 17 1980

OIL & GAS INSPECTOR TO BE NOTIFIED
Name PAUL GARRETT
Address 321 Beech Street
Clarksburg, W. Va. 26301

OIL & GAS DIVISION
DEPT. 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 Dec. 4, 1978, to the undersigned well operator from Paul Farr

[If said deed, lease, or other contract has been recorded:]

Recorded on Dec. 10, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Book 107 at page 189. 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 additional 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 declaration 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
1604 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

J & J Enterprises, Inc.
Well Operator
By Peter Battles
Peter Battles
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

Address P.O. BOX 48

Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5500 feet Rotary x / Cable tools /

Approximate water strata depths: Fresh, 80 feet; salt, 100 feet.

Approximate coal seam depths: None Is coal being mined in the area? Yes / No x /

HOUSING AND TUBING PROGRAM

Table with columns: HOUSING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, 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 § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 must be filed at the well site 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.

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 11-17-80

Signature of Deputy Director - Oil & Gas Division

The following information must be furnished 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.

By Its