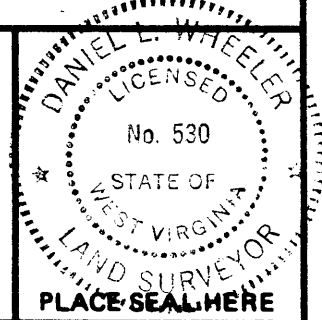


FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION BM AT R/R CROSSING
 ELEVATION 1003'

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



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



DATE OCTOBER 17th, 19 80
 OPERATOR'S WELL NO. J-400
 API WELL NO. _____
47 - 033 - 2554
 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 1360' WATER SHED LITTLE TENMILE
 DISTRICT SARDIS COUNTY HARRISON
 QUADRANGLE WALLACE 7.5' W.C. Workburg
 SURFACE OWNER EARL G. LAKE ACREAGE 34.47 Ac.
 OIL & GAS ROYALTY OWNER EARL G. LAKE + Dessel Yeater LEASE ACREAGE 34.47 Ac.
 LEASE NO. M-358
 PROPOSED WORK: DRILL X 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 ALEXANDER ESTIMATED DEPTH 5400'
 WELL OPERATOR J. and J. ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
BUCKHANNON, WEST VIRGINIA 26201 BUCKHANNON, WEST VIRGINIA 26201

RECEIVED

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

NOV 17 1982

WELL OPERATOR'S REPORT
OF
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES, OIL AND GAS DIVISION
OF
FRACURING 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: 1360 Watershed: Little Tenmile
District: Sardis County: Harrison Quadrangle: Wallace 7.5'
WELL OPERATOR J&J Enterprises, Inc. DESIGNATED AGENT Richard M. 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 9/23, 19 82

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Stephen Casey

Address Rt. # 2, Box 232-D

Jane LEW, WV 26378

GEOLOGICAL TARGET FORMATION: Alexander Depth _____ feet
Depth of completed well, 3218 feet Rotary X / Cable Tools ___
Water strata depth: Fresh 170 feet; salt, None feet.
Coal seam depths: 295-301 Is coal being mined in the area? No
Work was commenced 10/1, 19 82, and completed 10/5, 19 82

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 | | 23 | 23 | 0 sks. | Winds |
| Fresh water | 8 5/8 | ERW | 23 | X | | 921 | 921 | 240 sks. | |
| Coal | 8 5/8 | ERW | 23 | X | | 921 | 921 | 240 sks. | Sizes |
| Intermediate | | | | | | | | | |
| Production | 4 1/2 | J-55 | 10.5 | X | | 3092.40 | 3092.40 | 240 sks. | Depth set |
| Tubing | | | | | | | | | |
| Liners | | | | | | | | | Perforations: |
| | | | | | | | | | Top Bottom |
| | | | | | | | | | 2745 2750 |
| | | | | | | | | | 2830 2869 |
| | | | | | | | | | 2944 3000 |
| | | | | | | | | | 3051 3053 |

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 3051-53 feet

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, 340 psig (surface measurement) after 96 hours shut in

(If applicable due to multiple completion--)

Second producing formation Gordon Stray, 30ft. & 50ft.

Pay zone depth 2745-2750 - 30ft.
2830-2869 - 50ft.
2944-3000 - Gordon Stray

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

Pf=PweXGLS 1 1
Pw=340 e=2.72 x=53.34 T 53.34(54.29) T=60+(3092 X 0.0075)+459.7 X=.0000345 G=.635 L=2899 S=0.9

Pf=(340)(2.72)(0.057)=(340)(1.058)

Pf=359 psia

NOV 29 1982

38-78

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

Gordon: Perforations: 3051-53 (3 holes)

Gordon Stray: Perforations: 2944-3000 (10 holes)

Fracturing: 10,000 lbs. 80/100 sand: 30,000 lbs. 20/40 sand: 400 gal. Acid:
615 Bbls. fluid.

50 ft. Sand: Perforations: 2830-2869 (6 holes)

30 ft. sand: Perforations: 2747-50 (6 holes)

Fracturing: 10,000 lbs. 80/100 sand: 50,000 lbs. 20/40 sand: 15,000 gal. Acid:
710 Bbls. fluid.

WELL LOG

| FORMATION | Color | Hard or Soft | Top Feet | Bottom Feet | Remarks Including indication of all gas and salt water, coal, oil and ash |
|------------------------|-------|--------------|----------|-------------|--|
| Fill & shale | | | 0 | 15 | 1" stream @ 170' |
| Sand & shale | | | 15 | 27 | |
| Sand & shale | | | 27 | 170 | Gas ck @ 2291 24/10-1" w/water |
| Sand, shale & red rock | | | 170 | 295 | 36,592 cu.ft. |
| Coal | | | 295 | 301 | |
| Sand, shale & red rock | | | 301 | 385 | Gas ck @ 2784 20/10-1" w/water |
| Sand, red rock & shale | | | 385 | 425 | 33,679 cu.ft. |
| Sand & shale | | | 425 | 585 | |
| Sand, shale & red rock | | | 585 | 761 | Gas ck @ 2908 48/10-2" w/water |
| Sand, shale & red rock | | | 761 | 1055 | 292,000 cu.ft. |
| Sand & shale | | | 1055 | 1770 | |
| Sand & shale | | | 1770 | 2130 | Gas ck @ 3064 50/10-2" w/water |
| Big Lime | | | 2130 | 2220 | 298,000 cu.ft. |
| Big Injun | | | 2220 | 2270 | |
| Sand & shale | | | 2270 | 2747 | Gas ck. after T.D. 70/10-2" w/water |
| 30ft. sand | | | 2747 | 2750 | 353,000 cu.ft. |
| Sand & shale | | | 2750 | 2830 | |
| 50ft. sand | | | 2830 | 2869 | |
| Sand & shale | | | 2869 | 2944 | |
| Gordon Stray | | | 2944 | 3000 | |
| Sand & shale | | | 3000 | 3051 | |
| Gordon | | | 3051 | 3053 | |
| Sand & shale | | | 3053 | 3218 | T.D. |

(Attach separate sheets to complete as necessary.)

J&J Enterprises, Inc.

Well Operator

By

is

Daniel F. Stark
Daniel F. Stark
Geologist

NOTE: Regulation 2.2216 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-400
API Well No. 47-033 2554-R
State County Perm

WELL TYPE: Oil / Gas x /
(If "Gas", Production x / Underground storage / Deep / Shallow x /)
RENEWAL-OLD # 2554

LOCATION: Elevation: 1360 Watershed: Little Tenmile
District: Sardis County: Harrison Quadrangle: Wallace 7.5'

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

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

OIL & GAS ROYALTY OWNER Dessel Yeater/Earl Lake
Address 639 Washington Ave./Rt. 1, Box 365
Clarksburg, WV 26301/Wallace, WV 26448

COAL OPERATOR None
Address

ACREAGE 34.47
SURFACE OWNER Earl & Fay Lake
Address Rt. # 1, Box 365
Wallace, WV 26448
ACREAGE 34.47

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Willis G. Tetrick
Address Union National Bank Plaza
Clarksburg, WV 26301

FIELD SALE (IF MADE) TO:
Name Unknown
Address

Name
Address

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name Pittston Coal Co.
Address Wellington Heights
Philippi, WV 26416

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 December 4, 19 79, to the undersigned well operator from Clarence W. Mutschelkanus

If said deed, lease, or other contract has been recorded:]
Recorded on April 7, 19 80, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Oil & gas leasebook 1090 at page 161. 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
615 WASHINGTON STREET EAST
CHARLESTON, WV 25301

RECEIVED

SEP 23 1982

J & J Enterprises, Inc.

Well Operator

OIL & GAS DIVISION
DEPT. OF MINES
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, Alexander

Estimated depth of completed well, 5400 feet Rotary x/ Cable tools / Approximate water strata depths: Fresh, 130 feet; salt, 1550 feet. Approximate coal seam depths: 120, 380, 670 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 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 appropriate, the consent required by Code § 22-4-5a 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 renewed. THIS PERMIT SHALL EXPIRE IF OPERATIONS HAVE NOT COMMENCED BY 5-30-83

BY [Signature]

[Signature]

The following waiver must be executed 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 _____

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-400

API Well No. 47-033 2554
State County Perm

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

LOCATION: Elevation: 1360 Watershed: Little Tenmile
District: Sardis County: Harrison Quadrangle: Wallace 7.5'

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

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

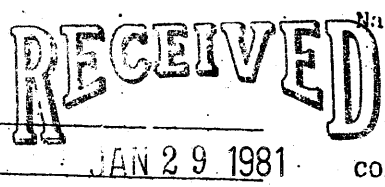
OIL & GAS ROYALTY OWNER Dessel Yeater/Earl Lake
Address 639 Washington Ave./Rt. 1, Box 365
Clarksburg, WV 26301/Wallace, WV 26448

COAL OPERATOR None
Address: _____

ACREAGE 34.47
SURFACE OWNER Earl & Fay Lake
Address Rt. # 1, Box 365
Wallace, WV 26448

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Willis G. Tetrick
Address Union National Bank Plaza
Clarksburg, WV 26301

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



Name _____
Address _____

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

OIL & GAS DIVISION
DEPT. OF MINES

COAL LESSEE WITH DECLARATION ON RECORD:
Name Pittston Coal Co.
Address Wellington Heights
Philippi, WV 26416

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated December 4, 1979, to the undersigned well operator from Clarence W. Mutschelkanus

[If said deed, lease, or other contract has been recorded:]
Recorded on April 7, 1980, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Oil & gas leasebook 1090 at page 161. 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) 343-2097

J & J Enterprises, Inc.
Well Operator

BLANKET BOND

[Signature]
Peter Battles

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, Alexander

Estimated depth of completed well, 5400 feet Rotary x/ Cable tools /

Approximate water strata depths: Fresh, 130 feet; salt, 1550 feet.

Approximate coal seam depths: 120, 380, 670 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 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 § 22-4-2a 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 THIS FORM MUST BE POSTED AT THE WELL SITE is noted as such on the Form IV-2 filed in connection therewith.

All operations 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 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 _____