FILE NO. 346-02
DRAWING NO. 81-63
SCALE 1"=500'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION Intersection of A, N and S, 50' 500' Location

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 1100' WATER SHED None
DISTRICT Southmont COUNTY Oddessa
QUAD: c 79' 9 No Brook 13' NE

SURFACE OWNER: Gilbert Osbourn
ACREAGE 26 Ac
OIL & GAS ROYALTY OWNER: W. Nutter Heirs & W. Morris Heirs
LEASE ACREAGE 26 Ac

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACUTRE 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 5300'
WELL OPERATOR: T.E. Enterprises, INC. DESIGNATED AGENT: H. I. Barnes
ADDRESS: P.O. Box 46
Buckhannan, W.Va. 26201

DATE: 7 Dec, 1981
OPERATOR'S WELL NO. J-604
API WELL NO. 47-017
STATE COUNTY PERMIT 3078

R.P.E. L.S. N.S.
PLACE SEAL HERE

E. Richards
W. B. Maxwell
J. D. Foley
Lota Husk
J-214
S.E. 1/4
S.W. 1/4
N.W. 1/4
S.E. 1/4
W. Nutter Heirs
E.W. Morris Heirs
36 Ac.

LOCATION J-604
S.E. 1/4
S.W. 1/4
N.W. 1/4
S.E. 1/4
W. Nutter Heirs
E.W. Morris Heirs
36 Ac.

Fence Corner
Beach Road
J-214
J-604

1.7/5
1.940W

1861
158'1
W.

1861
508'6

158'1
MAY 25 1982

STATE OF WEST VIRGINIA

OIL AND GAS DIVISION
PARTNERSHIP OF MINES, OIL AND GAS DIVISION

WELL OPERATOR'S REPORT

OF

DRILLING, SUFFICING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: OIL / Gas X / Liquid Injection X / Waste Disposal X
(If "Gas", Production X / Underground storage X / Deep X / Shallow X /)

LOCATION:
Elevation: 1140
Watertable: Jim Run
District: Southwest
County: Doddridge
Quadangle: Osbord 7.5'

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

DESIRED AGENT: Harry L. Barnett
Address: Box 48
Buckhannon, WV 26201

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

PERMIT ISSUED ON: 2/1, 1982

J&G INSPECTOR FOR THIS WORK:
Name: Stephen Casey
Address: Rt. 2, Box 232
Jane Low, WV 26378

GEOLITICAL TARGET FORMATION:
Alexander

Depth of completed well: 5105.03 ft
Rotary X / Cable Tools

Water strata depths: Fresh < 166 ft; Salt < None ft.
Coal seam depths: None Is coal being mined in the area: No
Work was commenced: 4/14, 1982, and completed: 4/19, 1982

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE | SPECIFICATIONS | FOOTAGE INTERVALS | CEMENT FILL IN | PACKERS
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Conductor</td>
<td>11 7/4</td>
<td>H-40</td>
<td>42 X</td>
</tr>
<tr>
<td>Fresh water</td>
<td>8 7/8</td>
<td>ERW</td>
<td>23 X</td>
</tr>
<tr>
<td>Coal</td>
<td>8 7/8</td>
<td>ERW</td>
<td>23 X</td>
</tr>
<tr>
<td>Intermediate</td>
<td>8 7/8</td>
<td>ERW</td>
<td>23 X</td>
</tr>
<tr>
<td>Production</td>
<td>4 5/8</td>
<td>J-55</td>
<td>10.5 X</td>
</tr>
</tbody>
</table>

Testing:
Perforations:
4434, 4437
4830, 4978, 5105, 5153

OPEN FLOW DATA
Producing formation: Alexander
Pay zone depth: 5105-53' ft
Gas: Initial open flow, 67 MCF/day
Combined: Final open flow, 1,008 MCF/day
Time of open flow between initial and final tests: 0 days
Static rock pressure, 1,100 psig (surface measurement) after 96 hours in
static
Second producing formation: Leopold, Benson & Riley
Pay zone depth: 4434-4437 feet
Gas: Initial open flow, 1 MCF/day
Final open flow, 1 MCF/day
Time of open flow between initial and final tests: 0 days
Static rock pressure, 1,100 psig (surface measurement) after 96 hours in
static

Pf=1100 x 2.72
Pf=12-- psi

Jun 2 1982
DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Alexander: Perforations: 5105-51 (19 holes)
Fracturing: 20,000 lbs. 80/100 sand: 50,000 lbs. 20/40 sand: 600 Bbls. fluid.

Leopold & Benson: Perforations: 4840-42 (5 holes) 4966-69 (5 holes)
Fracturing: 5,000 lbs. 80/100 sand: 25,000 lbs. 20/40 sand: 500 gals. Acid
400 Bbls. fluid.

Riley: Perforations: 4434-37 (13 holes)
Fracturing: 5,000 lbs. 80/100 sand: 30,000 lbs. 20/40 sand: 500 gals. Acid:450 Bbls.
fluid.
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

Date: January 29, 1982
Operator's Well No. J-604
API Well No. 37-017-3078

WELL TYPE: 011 / Gas x /
(If "Gas", Production x)
Underground storage /
Deep /
Shallow x /

LOCATION:
Elevation: 1140
Watershed: Jim's Run
District: Southwest
County: Doddridge
Quadrangle: Oxford 71/4

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

OIL & GAS
HOLDITY OWNER
W. Nutter Heirs & W. Morris Heirs
Address: C/O Mamie Britton
#5 8th Ave. Parkersburg, WV 26101

Acreage 36

SURFACE OWNER
Delbert Osbourne
Address: Route #1
West Union, WV 26456
Acreage 36

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

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

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 11/23, 1981, to the undersigned well operator from Clarence W. Mutschelknaus.

If said deed, lease, or other contract has been recorded:
recorded on 9/28, 1981, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Book 142 at page 322. A permit is requested as follows:

PROPOSED WORK: Drill / 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 operators, 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 plan 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 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 PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
512 Washington Street East
Charleston, WV 25311
TELEPHONE: (304) 348-3092

Blanket Bond

J & J Enterprises, Inc.

By
Peter Battles
Geologist

Well Operator
PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY.
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-15 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN)  S.W. Jack Drilling Company
Address  P.O. Box 48
         - Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION,  Alexander
Estimated depth of completed well,  5300   feet  Rotary K     Cable tools /
Approximate water strata depths:  Fresh, 1340   feet;  salt, 1600   feet.
Approximate coal seam depths:  None  Is coal being mined in the area?  Yes  No  X

CASING AND TUBING PROGRAM

<table>
<thead>
<tr>
<th>CASING OR TUBING TYPE</th>
<th>SPECIFICATIONS</th>
<th>FOOTAGE INTERVALS</th>
<th>CEMENT FILLED OR SACKS (Cubic Feet)</th>
<th>PACKERS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Size  Grade  Weight  per ft  Length  Used  For-drilling  Left in well  Cement Fill-up  or Sacks  Perkins</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conductor  11 1/2  H-40  42  x  30  0  0 sacks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fresh water  9 1/2  ERN  23  x  1650  1650  To surface  0 sacks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coal  8 1/2  ERN  23  x  1650  1650  To surface  0 sacks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermediate  5 1/2  J-55  10.5  x  5250  5250  210 sacks  Depths set</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Production  Liners  Tubing  Liners</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

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 plot in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 18, or in lieu thereof the other security allowed by Code § 22-4-6b, (iii) Form IV-3, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 73, (iv) unless previously paid on the same well, the fee required by Code § 22-4-18a, and (v) if over 1,000 feet, 200 feet of the proposed well shall not be required for fracturing or stimulating a well as noted on the Form IV-2 filed in connection therewith.

This Permit must be posted at the well site. The drilling is to be part of the work for which a permit is sought and is noted on the Form IV-2 filed in connection therewith.

All persons being in accordance with Chapter 22, all permits being in accordance with Chapter 22, this permit shall expire if operations have not commenced by 10-16-82.

Deputy Director - Oil & Gas Division

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 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.

WAIVER

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

[Signature]