



FILE NO. DE 2-2
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION OF RTs. 40 & 40 1/2 2400' N.W. OF LOCATION
ELEV. = 872'

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) [Signature]
 R.P.E. _____ L.L.S. 530

PLACE SEAL HERE

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



DATE MAY 9 1980
 OPERATOR'S WELL NO. J-47
 API WELL NO. _____
47 - 017 - 2772
 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 1065 WATERSHED Lick Run
 DISTRICT NEW MILTON COUNTY DOUGLASS
 QUADRANGLE NEW MILTON T.5' VADIS 15' NW
 SURFACE OWNER DR. AARON SCHWARTZMAN ACREAGE 1933.8
 OIL & GAS ROYALTY OWNER PORTER MAXWELL HEIRS LEASE ACREAGE 1933.8
 LEASE NO. J-47 A
 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 8,600'
 WELL OPERATOR JIT ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
Buckhannon, W. VA. 26201 Buckhannon, W. VA. 26201

134

RECEIVED

Date: 6/11
 Operator's Well No. 5-47
 API Well No. 47 - 017 2772
 State County Permit

JUN 14 1982

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

WELL OPERATOR'S REPORT
 OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas x / Liquid Injection ___ / Waste Disposal ___
 (If "Gas", Production x / Underground storage ___ / Deep ___ / Shallow x)
 LOCATION: Elevation: 1065 Watershed: Lick Run
 District: New Milton County: Doddridge Quadrangle: New Milton 7.5'
 WELL OPERATOR J&J Enterprises, Inc. DESIGNATED AGENT H.L. Barnett
 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 11/4, 19 81 OIL & GAS INSPECTOR FOR THIS WORK:
 (IF APPLICABLE: PLUGGING OF DRY HOLE ON 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 5180-5424 feet
 Depth of completed well, 5462 feet Rotary x / Cable Tools ___
 Water strata depth: Fresh, 1385 feet; salt, 0 feet.
 Coal seam depths: None Is coal being mined in the area? No
 Work was commenced 5/10, 19 82, and completed 5/16, 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 | | |
| Conductor | 11 3/4 | H-40 | 42 | x | | 31 | 31 | 0 sks. Bands |
| Fresh water | 8 5/8 | ERW | 23 | x | | 1132.90 | 1132.90 | 275 sks. |
| Coal | 8 5/8 | ERW | 23 | x | | 1132.90 | 1132.90 | 275 sks. Sizes |
| Intermediate | | | | | | | | |
| Production | 4 1/2 | J-55 | 10.5 | x | | 5297 | 5297 | 800 sks. Down set |
| Tubing | | | | | | | | |
| Liners | | | | | | | | Perforations: |
| | | | | | | | | Top Bottom |
| | | | | | | | | 4788 4896 |
| | | | | | | | | 4015 4018 |
| | | | | | | | | 3260 3355 |
| | | | | | | | | 2237 2384 |

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5185-5218 feet
 Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ Bbl/d
 Combined Final open flow, 1,905 Mcf/d Final open flow, ___ Bbl/d
 Time of open flow between initial and final tests, 4 hours
 Static rock pressure, 1200 psig (surface measurement) after 96 hours shut in
 (If applicable due to multiple completion--)
 Second producing formation Riley, Benson, Berea, Speechley Pay zone depth 4788-4896 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
 $t=60+(0.0075 \times 5297)+459.7 = 559$
 $x = \frac{1}{53.35 \times 559} = \frac{1}{29845} = 0.0000335$
 $Pf = 1200 \times 2.72 \times (0.0000335) \times (0.675) = 3228 \times (0.9) = 1200 \times 2.72 \times 0.066 = 1200 \times 1.068$
 2 ps

JUN 22 1982

[08-78]

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

Alexander: Perforations: 5185-5218(17 holes)
Fracturing: 100 sks. 80/100 sand: 500 sks. 20/40 sand: 600 Bbls. fluid.

Benson & Riley: 4788-4896 (14 holes)
Fracturing: 100 sks. 80/100 sand: 400 sks. 20/40 sand: 500 gal. Acid:500 Bbls. fluid.

Balltown: 4015-18 (12 holes)
Fracturing: 50 sks. 80/100 sand: 200 sks. 20/40 sand: 500 gal. Acid:300 Bbls.fluid.

Warren & Speechley: 3260-3355 (11 holes)
Fracturing: 100 sks. 80/100 sand; 400 sks. 20/40 sand:500 gals. Acid:500 Bbls.fluid

Weir & Berea: 2237-2384 (11 holes)
Fracturing: 100 sks. 80/100 sand: 350 sks. 20/40 sand: 500 gal. Acid:500 Bbls.fluid

*ELL 100

| FORMATION | Color | Hard or Soft | Top Feet | Bottom Feet | Remarks Including indication of all fresh and salt water, seal, oil and gas |
|------------------------|-------|--------------|----------|-------------|--|
| Fill & shale | | | 0 | 15 | |
| Sand & shale | | | 15 | 36 | Damp @ 28' |
| Sand, shale & red rock | | | 36 | 330 | |
| Sand, red rock & shale | | | 330 | 475 | Damp @ 200' |
| Sand, shale & red rock | | | 475 | 1150 | |
| Sandy shale | | | 1150 | 1399 | 1½" to 2" stream @ 1385' |
| Sand, shale & red rock | | | 1399 | 1500 | |
| White sand | | | 1500 | 1680 | Gas ck @ 5215' No show |
| Sand & shale | | | 1680 | 1900 | |
| Big Lime | | | 1900 | 1950 | |
| Big Injun | | | 1950 | 2030 | |
| Sand & shale | | | 2030 | 2237 | |
| Weir & Berea | | | 2237 | 2384 | |
| Sand & shale | | | 2384 | 3260 | |
| Warren & speechley | | | 3260 | 3355 | |
| Sand & shale | | | 3355 | 4015 | |
| Balltown | | | 4015 | 4018 | |
| Sand & shale | | | 4018 | 4788 | |
| Riley & Benson | | | 4788 | 4896 | |
| Sand & shale | | | 4896 | 5180 | |
| <u>Alexander</u> | | | 5180 | 5240 | |
| Sand & shale | | | 5240 | 5462 | |
| | | | | TD | |

(Attach separate sheets to complete as necessary.)

J&J Enterprises, Inc.

Well Operator

By

Peter Battles
Peter Battles

Its

Geologist

NOTE: Regulation 2.02(d) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including seal, encountered in the well."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-47

WELL TYPE: Oil / Gas X (2nd. RENEWAL-OLD # 2772-RENEWAL) API Well No. 47 - 017 - State County Perm (old # 017-2772-renewal)
LOCATION: Elevation: 1065 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: New Milton 7.5'

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

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

LAND & GAS LEASED TO: LEASE OWNER Porter Maxwell Heirs
Address Box 2190
Clarksburg, WV 26301
Acreage 1333.8 Ac.

COAL OPERATOR None
Address:

LEASE OWNER Dr. Aaron Schwartzman
Address 2007 Martin Luther King Ave.
Washington DC 20070
Acreage 1333.8 Ac.

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Aaron & Veatrice Schwartzman
Address 2007 Martin Luther King Ave.
Washington DC 20070

RENTAL SALE (IF MADE) TO:
Name unknown
Address:

Name
Address

LAND & 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

RECEIVED
NOV - 4 1981

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 10-24, 1979, to the undersigned well operator from Delmur Oil Company [said deed, lease, or other contract has been recorded].

Recorded on 10-30, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Leasebook 112 at page 337. 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 action they wish to take or are required to make by Code 5 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 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 5 WASHINGTON STREET EAST CHARLESTON, WV 25311

BLANKET BOND

J&J Enterprises, Inc. Well Operator
BY 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 Drilling Co.
Address P.O. Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5300 feet Rotary X / Cable tools /
Approximate water strata depths: Fresh, 830 feet; salt, 1400 feet.
Approximate coal seam depths: 220 IS coal being mined in the area? Yes No X

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 | Kinds |
| Fresh water | 8 5/8 | ERW | 23 | X | | 1450 | 1450 | 365 sks | |
| Coal | 8 5/8 | ERW | 23 | X | | 1450 | 1450 | 365 sks | Sizes |
| Intermediate | | | | | | | | | |
| Production Tubing | 4 1/2 | J-55 | 10.5 | X | | 5300 | 5300 | 300 sks | Depths set |
| 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 § 22-4-2a 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 renewed. This permit shall expire if operations have not commenced by 7-6-82

[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

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-47 **REN**
API Well No. 47-017-2772-R
(old # 017-2772-renewal) State County Perm

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /)
LOCATION: Elevation: 1065 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: New Milton 7.5'

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

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

OIL & GAS ROYALTY OWNER Porter Maxwell Heirs
Address Box 2190
Clarksburg, WV 26301

COAL OPERATOR None
Address:

ACREAGE 1333.8 Ac.
SURFACE OWNER Dr. Aaron Schwartzman
Address 2007 Martin Luther King Ave.
Washington DC 20070
ACREAGE 1333.8 Ac.

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Aaron & Veatrice Schwartzman
Address 2007 Martin Luther King Ave.
Washington DC 20070

FIELD SALE (IF MADE) TO:
Name unknown
Address

Name
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech Street
Clarksburg, WV 26301

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address FEB 27 1981

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 X / dated 10-24, 1979, to the undersigned well operator from Delmur Oil Company

If said deed, lease, or other contract has been recorded:]
Recorded on 10-30, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Lease Book 112 at page 337. 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 obligation they wish to make or are required to make by Code § 22-5-3 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
ECONOMIC PHYSICAL LOSS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
615 WASHINGTON STREET EAST
CHARLESTON, WV 25311

J&J Enterprises, Inc.
Well Operator

BLANKET BOND

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 Drilling Co. Address P.O. Box 48 Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5300 feet Rotary -X- / Cable tools / Approximate water strata depths: Fresh, 830 feet; salt, 1400 feet. Approximate coal seam depths: 220 Is coal being mined in the area? Yes 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 § 22-4-12c 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 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 21, of the W. Va. Code, the location is hereby approved for drilling Renewed This permit shall expire if operations have not commenced by 11-3-81.

Signature of Deputy Director, Oil & Gas Division

The following waiver must be signed by the well 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-47

API Well No. 47-017-2772
State County Perm

WELL TYPE: Oil / Gas /
(If "Gas", Production / Underground storage / Deep / Shallow /)
LOCATION: Elevation: 1065 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: New Milton 7.5'

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

OIL & GAS ROYALTY OWNER Porter Maxwell Heirs COAL OPERATOR None
Address Box 2190 Address _____
Clarksburg, WV 26301

ACREAGE 1333.8
SURFACE OWNER Dr. Aaron Schwartzman COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Aaron & Veatrice Schwartzman
Address 2007 Martin Luther King Ave. Address 2007 Nichols Ave., S.E.
Washington, D.C. 20070 Washington, D.C. 20020
Name _____
Address _____

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

OIL & GAS INSPECTOR TO BE NOTIFIED:
Name Paul Garrett
Address 321 Beech Street
Clarksburg, WV 26301

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated 10-24, 1979, to the undersigned well operator from Delmur Oil Company

If said deed, lease, or other contract has been recorded:
Recorded on 10-30, 1979, in the office of the Clerk of the County Commission of Doddridge county, West Virginia, in Oil & Gas ^{lease} Book 112 at page 337. 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 § 52-2-2 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 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
125 WASHINGTON STREET EAST
CHARLESTON, WV 25311
1304 258-3092

RECEIVED
JUN 18 1980
OIL & GAS DIVISION
DEPT. OF MINES

J & J Enterprises, Inc.
Well Operator
By Daniel Stark
Its Geologist

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, 5300 feet Rotary X / Cable tools /
Approximate water strata depths: Fresh, 830 feet; salt, 1400 feet.
Approximate coal seam depths: 220 Is coal being mined in the area? Yes / No X

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 | Kinds | None |
| Conductor | 1 13/4 | H-40 | 42 | x | | 30 | 0 | 0 sks | Kinds | None |
| Fresh water | 8 5/8 | ERW | 23 | x | | 1450 | 1450 | 365 sks | | |
| Coal | 8 5/8 | ERW | 23 | x | | 1450 | 1450 | 365 sks | Sizes | |
| Intermediate | | | | | | | | | | |
| Production | 4 1/2 | J-55 | 10.5 | x | | 5300 | 5300 | 300 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 this permit is such as that 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 3-1-81.

[Signature]
Deputy Director - Oil & Gas Division

The following waiver must be completed by the well operator and by the coal owner or coal lessee who has recorded a declaration under Code § 22-4-12, 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