

LATITUDE 39° 15'

39 10 35
80 43 10

(15') 80° 40'
LONGITUDE 80° 42' 30"

NORTH

PORTER MAXWELL HEIRS
1333.8 AC.

HARRIETT E MAXWELL
79.75 AC.

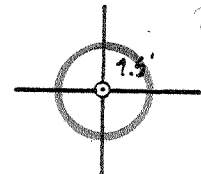
DR. AARON SCHWARTZMAN
64.5 AC.

JOHN J. RIORDAN

JOHN WALTON
189.25 AC.

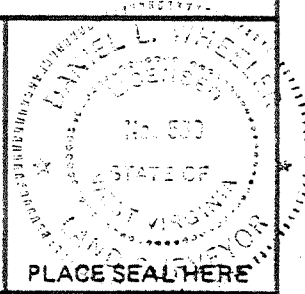
MARY E. WUTTER
64 AC.

J-280
EL. 1160'



FILE NO. 19/67
DRAWING NO. _____
SCALE 1" = 1,000'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200
PROVEN SOURCE OF ELEVATION INT. RT. 40/3
EL. 1160' - 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) 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 APRIL 28, 19 80
OPERATOR'S WELL NO. J-280
API WELL NO. _____
47 - 017 - 2944
STATE COUNTY PERMIT
Formerly: 017 - 2697
27

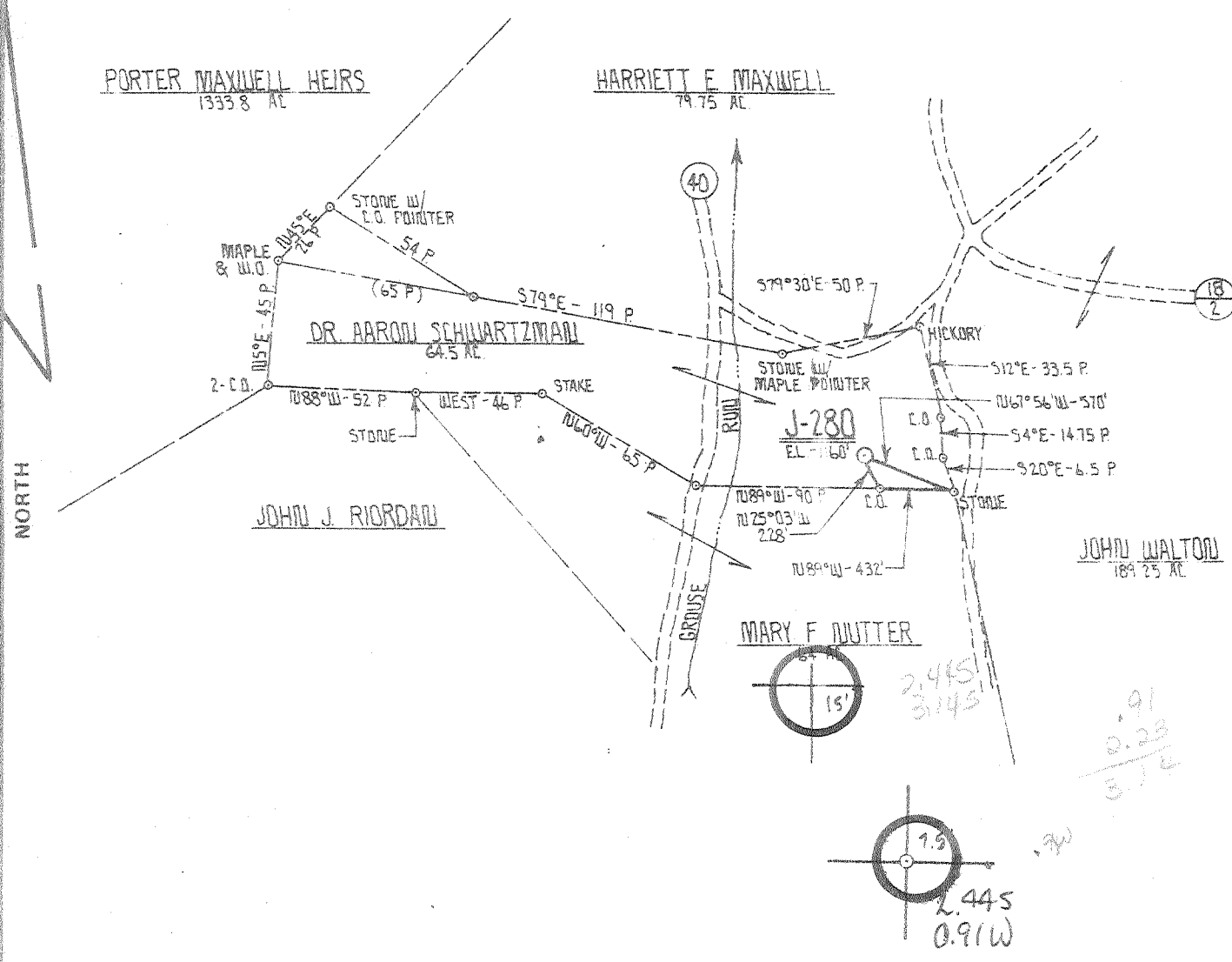
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 1160' WATER SHED GROUSE RUN
DISTRICT NEW MILTON COUNTY DODDRIDGE
QUADRANGLE NEW MILTON 75' VADIS 15' NW
SURFACE OWNER DR. AARON SCHWARTZMAN ACREAGE 70
OIL & GAS ROYALTY OWNER DR. AARON SCHWARTZMAN LEASE ACREAGE 70
LEASE NO. _____
PROPOSED WORK: DRILL ___ 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. J. ENTERPRISES, INC. DESIGNATED AGENT HARRY BARRETT
ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
BUCKHARTWOOD, W. VA. 26201 BUCKHARTWOOD, W. VA. 26201

H. T. HALL

60 PORTO RICO FEB 23 1981 134



FILE NO 19/67
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION INT. RT. 40/3
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) Daniel L. Wheeler
 R.P.E. _____ L.L.S. 530

PLACE SEAL HERE

(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV 5 (8-78)



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE APRIL 28 19 80
 OPERATOR'S WELL NO J-280
 API WELL NO 47 - 017 - 2697
 STATE COUNTY PERMIT
now: 017 - 2944

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1160' WATER SHED GROUSE RUN
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 75' VADIS 15' NW
 SURFACE OWNER DR. AARON SCHWARTZMAN ACREAGE 70
 OIL & GAS ROYALTY OWNER DR. AARON SCHWARTZMAN LEASE ACREAGE 70
 LEASE NO. _____
 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 5400'
 WELL OPERATOR J & J ENTERPRISES, INC DESIGNATED AGENT HARRY BARNETT
 ADDRESS P.O. BOX 48 BUCKHANNON, W. VA 26201 ADDRESS P.O. BOX 48 BUCKHANNON, W. VA 26201

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

RECEIVED

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

JUN 30 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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

LOCATION: Elevation: 1160 Watershed: Grouse Run
District: New Milton County: Doddridge Quadrangle: _____

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

PERMIT ISSUED ON 1/20, 19 82 OIL & GAS INSPECTOR FOR THIS WORK:
Name Stephen Casey
Address Rt. # 2, Box 232-D
Jane Lew, WV 26378

GEOLOGICAL TARGET FORMATION: Alexander Depth 5320-5416 feet
Depth of completed well, 5492 feet Rotary / Cable Tools
Water strata depth: Fresh 98,710 feet; salt, 0 feet.
Coal seam depths: None Is coal being mined in the area? NO
Work was commenced 5/17, 19 82, and completed 5/23, 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		31	31	0 sks .	Rinds
Fresh water	8 5/8	ERW	23	x		1296.75	1296.75	325 sks.	
Coal	8 5/8	ERW	23	x		1296.75	1296.75	325 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5443.70	5443.70	600 sks.	Depos set
Tubing									
Liners									Perforations:
									Top Bottom
									2174 2177
									2764 2767
									3512 3536
									4960 4963
									5060 5063
									5350 5416

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5350-5416 feet

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Combined Final open flow, 179 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 4 hours

Static rock pressure, 800 psig (surface measurement) after 48 hours shut in
[If applicable due to multiple completion--]
2174-2177
2764-2767
3512-3536

Second producing formation Benson, Riley, Speechley, Gordon Pay zone depth 4960-4963 feet

Gas: Initial open flow, _____ Mcf/d Oil: Big Injun 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

om Hole Pressure Static rock pressure, _____ psig (surface measurement) after _____ hours shut in
Pf=PweXGLS
1
t=60 + (0.0075 x 5414) +459.7=560 X=53.35 x 560 =29904 =0.0000334 Pf=800x2.72 (0.0000334) (0.675)
(3795) (0.9) =800 x 2.72 0.077 =800 x 1.08
Pf=864 psi

JUL 18 1982

2944

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

Alexander: Perforations: 5350-5416 (16 holes)
Fracturing: 150 sks. 80/100 sand: 350 sks. 20/40 sand: 500 Bbls. fluid.

Benson & Riley: Perforations: 5060-63 (7 holes)
4960-63 (5 holes)
Fracturing: 100 sks. 80/100 sand: 350 sks. 20/40 sand: 500 gal. Acid: 400 Bbls. fluid.

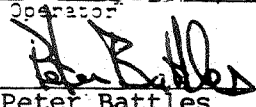
Speechley: Perforations: 3512-36 (12 holes)
Fracturing: 50 sks. 80/100 sand: 280 sks. 20/40 sand: 500 gal. Acid: 400 Bbls. fluid.

Gordon & Big Injun: Perforations: 2764-67 (6 holes)
2174-77 (6 holes)
Fracturing: Did not frac these zones - Circulated.

WELL 103

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all gases and salt water, coal, oil and gas
Soil			0	15	
Sand & shale			15	140	½" stream @ 98'
Sand, shale & red rock			140	505	
Sand & shale			505	750	More water @ 710'
Shale & red rock			750	870	
Sand & shale			870	1060	Gas ck @ 2205 14/10-½" w/water
Sand & shale			1060	2015	7,644 cu.ft.
Big Lime			2015	2075	
Sand & shale			2075	2170	Gas ck @ 3011 6/10-½" w/water
Big Injun			2170	2177	4,611 cu.ft.
Sand & shale			2177	2300	
Weir			2300	2400	Gas ck @ 3695 3/10-½" w/water
Sand & shale			2400	2764	3,240 cu.ft.
Gordon			2764	2767	
Sand & shale			2767	3512	Gas ck @ 4221 3/10-½" w/water
Speechley			3512	3536	3,240 cu.ft.
Sand & shale			3536	4960	
Riley			4960	4963	Gas ck @ 4963 3/10-½" w/water
Sand & shale			4963	5060	3,240 cu.ft.
Benson			5060	5063	
Sand & shale			5063	5320	Gas ck @ 4994 12/10-½" w/water
Alexander			5320	5416	6,321 cu.ft.
Sand & shale			5416	5492	
				TD	Gas ck @ 5057 22/10-½" w/water
					82,70 cu.ft.
					Gas ck @ T. D. 12/10-½" w/water
					5,321 cu.ft.

(Attach separate sheets to complete as necessary.)

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

NOTE: Regulation 2.02(4) 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-280

API Well No. 47-017-2697
State County Permi
now: 017-2944

WELL TYPE: Oil / Gas /
(If "Gas", Production / Underground storage / Deep / Shallow /
LOCATION: Elevation: 1160 Watershed: Grouse Run
District: New Milton County: Doddridge Quadrangle: New Milton 7.5

WELL OPERATOR J&J Enterprises Inc
Address Box 48
Buckhannon Wv 26201

DESIGNATED AGENT H. Barnett
Address Box 48
Buckhannon WV 26201

OIL & GAS ROYALTY OWNER Dr. Aaron Schwartzman
Address 2007 Dr. Martin Luther King Ave.
Washington D.C. 20070
Acreage 70

COAL OPERATOR none
Address _____

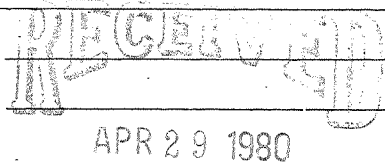
SURFACE OWNER Dr. Aaron Schwartzman
Address 2007 Dr. Martin Luther King Ave.
Washington D.C. 20070
Acreage _____

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Dr. Aaron Schwartzman
Address 2007 Dr. Martin Luther King
Washington D.C. 20070
Name _____
Address _____

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name none
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech St.
Clarksburg Wv. 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 Nov. 15, 1978, to the undersigned well operator from Dr. Aaron Schwartzman

[If said deed, lease, or other contract has been recorded:]
Recorded on Nov. 25, 19 78, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 105 at page 764. 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 well operator, coal owner(s), and coal lessee are hereby notified that any objections they wish to make 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 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
1614 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

J&J Enterprises Inc
Well Operator

By Steve Battles
Its Geologist

[08-78]

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 Box 48

Buckhannon WV. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5250 feet Rotary XX / Cable tools /

Approximate water strata depths: Fresh, 25 feet; salt, 0 feet.

Approximate coal seam depths: none 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	03	0	Kinds
Fresh water	8 5/8	erw	23	X		800	800	250sks.	
Coal	8 5/8	ERW	23	X		800	800	250sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5180	5180	300sks.	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 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 stimulation 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 12-30-80.


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.

Date: 19

by
Its

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-280

API Well No. 47-017-2944 (old no. 2697)

WELL TYPE: Oil / Gas X / (If "Gas", Production X / Underground storage / Deep / Shallow X /) LOCATION: Elevation: II60 Watershed: Grouse Run District: New Milton County: Doddridge Quadrangle: New Milton 7.5

WELL OPERATOR J&J Enterprises Inc Address Box 48 Buckhannon Wv 2620I

DESIGNATED AGENT H. Barnett Address Box 48 Buckhannon WV 2620I

COAL & GAS LEASE OWNER Dr. Aaron Schwartzman Address 2007 Dr. Martin Luther King Ave. Washington D.C. 20070

COAL OPERATOR none Address

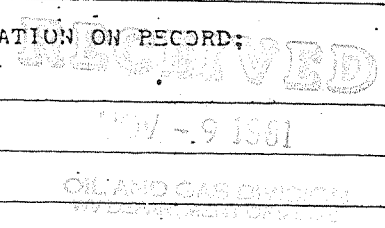
COAL SURFACE OWNER Dr. Aaron Schwartzman Address 2007 Dr. Martin Luther King Ave. Washington D.C. 20070

COAL OWNER(S) WITH DECLARATION ON RECORD: Name Dr. Aaron Schwartzman Address 2007 Dr. Martin Luther King Washington D.C. 20070

FIELD SALE (IF MADE) TO: Address

COAL LESSEE WITH DECLARATION ON RECORD: Name none Address

COAL & GAS INSPECTOR TO BE NOTIFIED Name Paul Garrett Address 32I Beech St. Clarksburg WV. 2630I



The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract XX/ dated Nov. 15, 1978, to the undersigned well operator from Dr. Aaron Schwartzman

Recorded on Nov. 25, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 105 at page 764. 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 well operator, coal owner(s), and coal lessee are hereby notified that any changes they wish to make or are required to make by Code § 22-4-3 must be filed with the Department 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 100 WASHINGTON STREET EAST CHARLESTON, WV 25311 TELEPHONE: (304) 548-3093

BLANKET BOND

J&J Enterprises Inc Well Operator

By [Signature]

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 Box 48 Buckhannon WV. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5250 feet Rotary XY / Cable tools / Approximate water strata depths: Fresh, 25 feet; salt, 0 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, Performations: 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 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 required such as 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 7-20-82

Signature of Deputy Director - Oil & Gas Division

The undersigned shall not be held liable by the coal operator and by any coal owner or coal lessee who has received a declaration under Code § 22-4-20, if the permit is not received within fifteen (15) days of receipt thereof:

E A I V E R

The undersigned coal operator / owner / lessee / of the coal under this location has examined the 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

Handwritten signature

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-280

API Well No. 47-017-2944
State County Permi (old no. 2697)

WELL TYPE: Oil / Gas X /
(If "Gas", Production X / Underground storage / Deep / Shallow X /)
LOCATION: Elevation: 1160 Watershed: Grouse Run
District: New Milton County: Doddridge Quadrangle: New Milton 7.5

WELL OPERATOR J&J Enterprises Inc
Address Box 48
Buckhannon Wv 26201

DESIGNATED AGENT H. Barnett
Address Box 48
Buckhannon WV 26201

OIL & GAS ROYALTY OWNER Dr. Aaron Schwartzman
Address 2007 Dr. Martin Luther King Ave.
Washington D.C. 20070

COAL OPERATOR none
Address

ACREAGE 70
SURFACE OWNER Dr. Aaron Schwartzman
Address 2007 Dr. Martin Luther King Ave.
Washington D.C. 20070

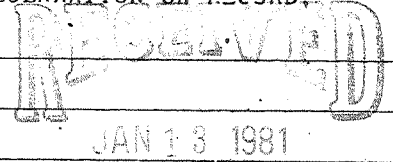
COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Dr. Aaron Schwartzman
Address 2007 Dr. Martin Luther King
Washington D.C. 20070

FIELD SALE (IF MADE) TO:
Name
Address

Name
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech St.
Clarksburg Wv. 26301

COAL LESSEE WITH DECLARATION ON RECORD:
Name none
Address



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 XX dated Nov. 15, 1978, to the undersigned well operator from Dr. Aaron Schwartzman

[If said deed, lease, or other contract has been recorded:]
Recorded on Nov. 25, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 105 at page 764. 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 well operator, coal owner(s), and coal lessee are hereby notified that any objections 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
601 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 345-5092

BLANKET BOND

J&J Enterprises Inc
Well Operator

By Peter Battler
H. Barnett

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 Box 48 Buckhannon WV. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5250 feet RotaryXX / Cable tools /

Approximate water strata depths: Fresh, 25 feet; salt, 0 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. Rows include Conductor, Fresh water, Coal, Intermediate, Production, Tubing, and Liners.

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 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 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 9-14-81

J. J. Huzzey Deputy Director - Oil & Gas Division

The undersigned coal operator is required by the coal operator and by any coal owner or coal lessee who has records 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: 5 19

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