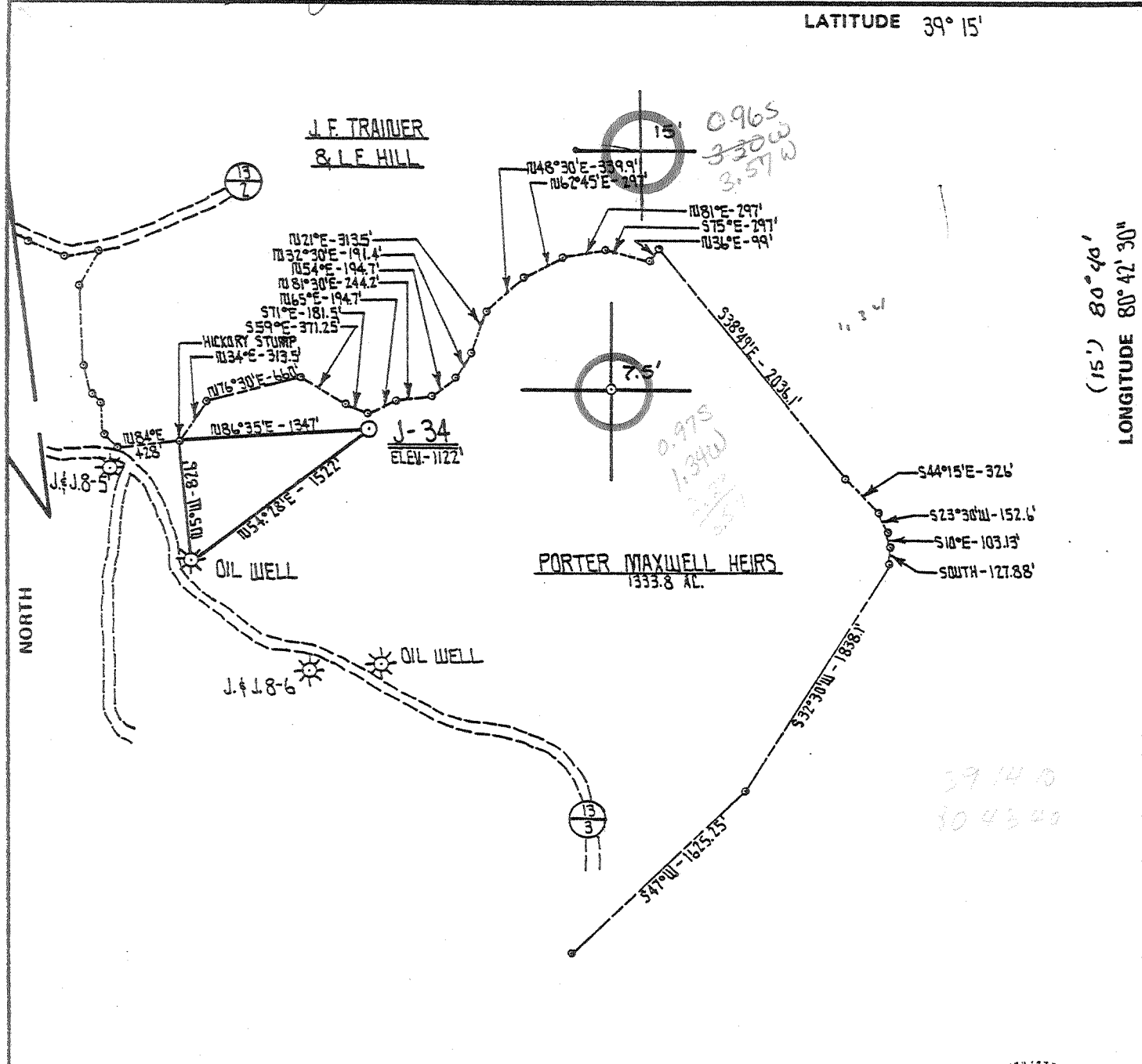


1-2 Plot of Card CSD 5118

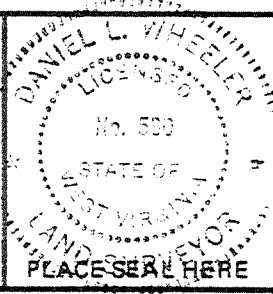
LATITUDE 39° 15'

LONGITUDE 80° 42' 30"



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION B.M. - 1800' NORTH OF INT. OF RTS. 13 & 13/3. ELEV. - 1764'

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)



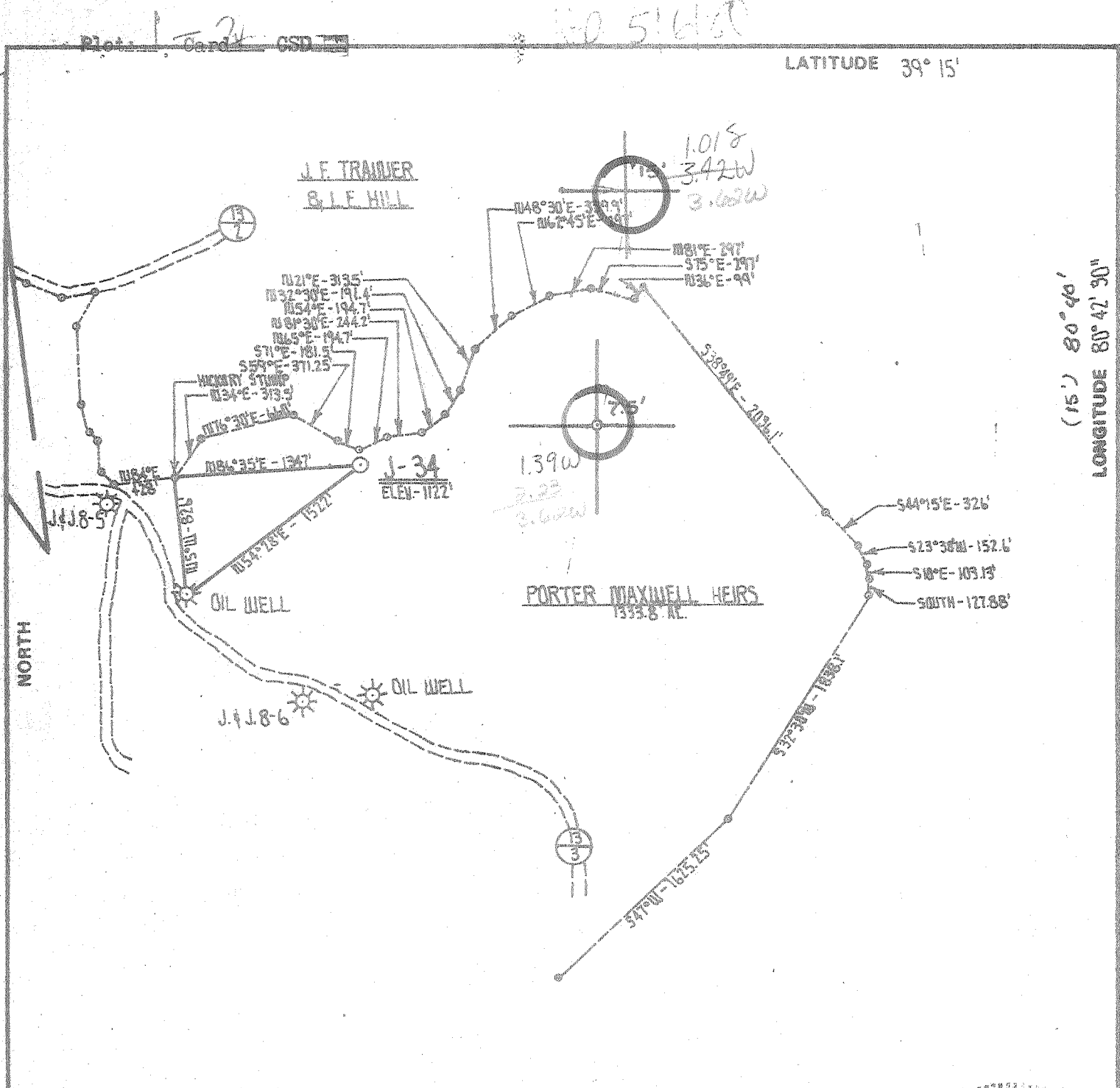
DATE APRIL 30, 19 80
 OPERATOR'S WELL NO. J-34
 API WELL NO. _____
47 - 017 = 2947
 STATE COUNTY PERMIT
 Formerly: 017 - 2733

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 1122' WATER SHED LICK RUN
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 75' VADIS 15' NW
 SURFACE OWNER DR. ARNO SCHWARTZMAN ACREAGE 1333.8
 OIL & GAS ROYALTY OWNER PORTER MAXWELL HEIRS LEASE ACREAGE 1333.8
 LEASE NO. J.J.-8
 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 ADDRESS P.O. BOX 48
BICKHAMTON, W. VA. 26201 BICKHAMTON, W. VA. 26201

H. T. HALL

6-6 New Milton North (144) (099) FEB 23 1981



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION B.M. - 1800' NORTH OF FOOT OF RTS 13 & 13/3 ELEV. - 1249'

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 30 19 80
 OPERATOR'S WELL NO. J-34
 API WELL NO. _____
 WAS: 47 - 017 - 2733
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

now: 017-2947

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1122' WATER SHED LICK RUN
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 75' VAD 15' NW
 SURFACE OWNER DR. ARON SCHWARTZMAN ACREAGE 1333.8
 OIL & GAS ROYALTY OWNER PORTER MAXWELL HEIRS LEASE ACREAGE 1333.8
 LEASE NO. J-118-8
 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 BARRETT
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
 RICHMOND, W. VA. 21201 RICHMOND, W. VA. 21201

[08-78]

WELL OPERATOR'S REPORT
OF

API Well No. 47 - 017 2947
State County Perm

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: 1122 Watershed: Right Hand Fork of Lick Run
District: New Milton County: Doddridge Quadrangle: New Milton 7.5'

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT Roger Rolston
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 1/13/81, 19 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 5150-5210 feet

Depth of completed well, 5398 feet Rotary X / Cable Tools

Water strata depth: Fresh, 90,355 feet; salt, 0 feet.

Coal seam depths: None Is coal being mined in the area? No

Work was commenced 3/24, 1981, and completed 3/29, 1981

LOGGING AND TUBING PROGRAM

LOGGING 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		32	32	0 sks.	Minds
Fresh water	8 5/8	ERW	23	X		1097	1097	280 sks.	
Gal	8 5/8	ERW	23	X		1097	1097	280 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5272	5272	760 sks.	Depth set
Stands									
Lines									Perforations:
									Top Bottom
									5181 5208
									3275 3495
									4195 4900

RECEIVED
APR 27 1981

OPEN FLOW DATA

OIL & GAS DIVISION
DEPT. OF MINES

Producing formation Alexander Pay zone depth 5181-5208 feet

Gas: Initial open flow, ___ Mcf/d Oil: Initial open flow, ___ Bbl/d

Combined Final open flow, 660 Mcf/d Final open flow, ___ Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 1000 psig (surface measurement) after 96 hours shut in.

[If applicable due to multiple completion--]

Second producing formation ⁴⁸⁵⁰⁻⁴⁹⁰⁰ Speechley, Benson, Riley & Bradford ⁴¹⁹²⁻ pay zone depth ^{3275-3495 SP.} 4192-4900 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

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

MAY 12 1981

108-781

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

Alexander: Perforations: 5181-5208 (8 holes)
Fracturing: 200 sks. 80/100 sand: 400 sks. 20/40 sand: 550 Bbls. fluid.

Benson, Riley & Bradford: Perforations: 4192-4900 (21 holes)
Fracturing: 150 sks. 80/100 sand: 450 sks. 20/40 sand: 1000 gal Acid: 550 Bbls. fluid

Speechley: Perforations: 3275-3495 (12 holes)
Fracturing: 500 gal Acid: 100 sks. 80/100 sand: 350 sks. 20/40 sand: 400 Bbls. fluid.

WELL 100

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Fill			0	15	
Sand, shale & red rock			15	50	Damp @ 90'
Sand & shale			50	200	
Red rock, sand & shale			200	260	1/4"-1/2" stream @ 355'
Sand, shale & red rock			260	330	
Red rock & shale			330	355	Gas ck @ 3632 38/10-1" w/water 48,430 cu.ft.
Red rock & shale			355	455	
Red rock, sand & shale			455	495	Gas ck @ 4870 30/10-1" w/water 41,222 cu.ft.
Red rock, sand & shale			495	505	
Sand, shale & red rock			505	700	18/10-1" w/water 31,950 cu.ft.
Sand & shale			700	780	
Red rock			780	800	
Sand & shale			800	1810	Gas ck @ 2516 20/10-1" w/water 33,679 cu.ft.
Big Lime			1810	1885	
Big Injun			1885	1940	
Sand & shale			1940	3275	
Speechley			3275	3495	
Sand & shale			3495	4192	
Bradford & Riley			4192	4900	
& Benson					
Sand & shale			4900	5150	
Alexander			5150	5210	
Sand & shale			5210	5398TD	

(Attach separate sheets as complete as necessary.)

J & J Enterprises, Inc.

Well Operator

By

Peter Battles

Peter Battles
Geologist

Iss

NOTE: Regulation 2.00(d) 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-34

API Well No. 47 - 017 2733
State County Permit

now: 017-2947

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

LOCATION: Elevation: 1122 Watershed: Right Hand Fork of 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
Acreage 1333.8

COAL OPERATOR None
Address _____

SURFACE OWNER Dr. Aaron Schwartzman
Address 2007 Dr. Martin Luther King Ave.
Washington, D.C. 20070
Acreage 1333.8

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Aaron & Veatrice Schwartzman
Address 2007 Nichols Ave., S.E.
Washington, D.C. 20020

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 Street
Clarksburg, WV 26301

RECORDED
APR 30 1980

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 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 § 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
PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
15 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

J & J Enterprises, Inc.
Well Operator
By Peter Batties
Peter Batties
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 Company
P.O. Box 48
Address _____
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5300 feet Rotary / Cable tools _____ /

Approximate water strata depths: Fresh, 890 feet; salt, 1000 feet.

Approximate coal seam depths: 280 Is coal being mined in the area? Yes _____ / No

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	1 13/4	H-40	42	x		30	30	0 sks. Kinds
Fresh water	8 5/8	ERW	23	x		1100	1100	300 sks.
Coal	8 5/8	ERW	23	x		1100	1100	300 sks. Sizes
Intermediate								
Production	4 1/2	J-55	10.5	x		5250	5250	280 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 is noted as such on the form posted at the well site 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 1-12-81.

Robert F. [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-34

API Well No. 47 - 017 -2947
State County Permit

WELL TYPE: Oil / Gas /
(If "Gas", Production / Underground storage / Deep / Shallow / old No. 2733)

LOCATION: Elevation: 1122 Watershed: Right Hand Fork of 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
Acreage 1333.8

COAL OPERATOR None
Address _____

SURFACE OWNER Dr. Aaron Schwartzman
Address 2007 Dr. Martin Luther King Ave.
Washington, D.C. 20070
Acreage 1333.8

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Aaron & Veatrice Schwartzman
Address 2007 Nichols Ave., S.E.
Washington, D.C. 20020
Name _____
Address _____

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____
REGISTERED
JAN 13 1981

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech Street
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 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 § 20-4-3 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) 348-3092

BLANKET BOND

J & J Enterprises, Inc.
Well Operator
By Peter Rutter
Peter Rutter
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 Company
P.O. Box 48
Address Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5300 feet Rotary X / Cable tools /
Approximate water strata depths: Fresh, 890 feet; salt, 1000 feet.
Approximate coal seam depths: 280 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	1 13/4	H-40	42	X		30	30	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	X		1100	1100	300 sks.	} CTS Sizes
Coal	8 5/8	ERW	23	X		1100	1100	300 sks.	
Intermediate									
Production	4 1/2	J-55	10.5	X		5250	5250	⁵²⁵ 280 sks.	Depths set
Tubing								<i>as on reg</i>	
Liners								<i>by rule</i> 15.01	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-3, "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 in drilling with 200 feet of the proposed well.

THIS PERMIT MUST BE SEPARATE FROM WELL SITE. This permit 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. E. Murray
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by the 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