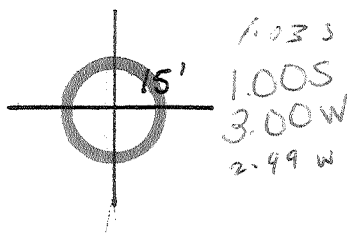


LATITUDE 39° 15'



J. F. TRAINER  
& L. E. HILL

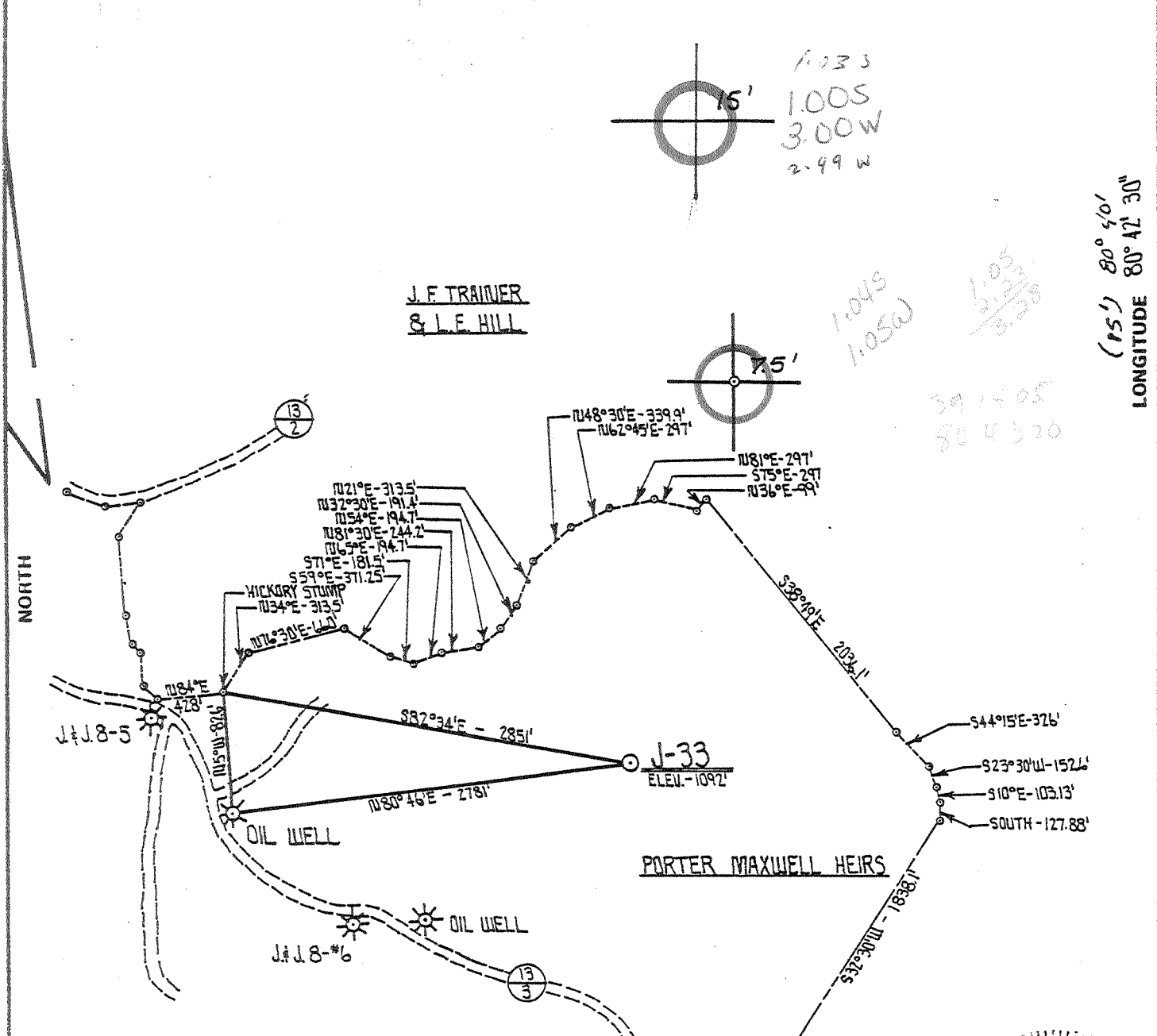
1.045  
1.050W

1.05  
3.27  
3.28

(15') 80° 40'  
80° 42' 30"  
LONGITUDE

39 15 05  
80 43 20

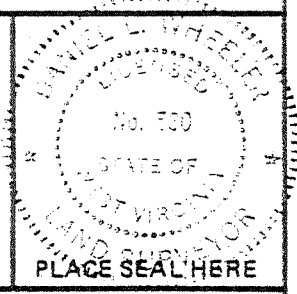
NORTH



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 RT. 13 & RT. 13/3 E.L. - 1269'

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 29, 19 80  
OPERATOR'S WELL NO. J-33  
API WELL NO. \_\_\_\_\_

47 - 017 - 2946  
STATE COUNTY PERMIT  
Formerly 017 - 2732

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 1122' WATER SHED LICK RUN  
DISTRICT NEW MILTON COUNTY DODDRIDGE  
QUADRANGLE NEW MILTON 25 VADIS 15' NW  
SURFACE OWNER DR. AARON SCHWARTZMAN ACREAGE 1333.8  
OIL & GAS ROYALTY OWNER PORTER MAXWELL HEIRS LEASE ACREAGE 1333.8  
LEASE NO. J-8-8

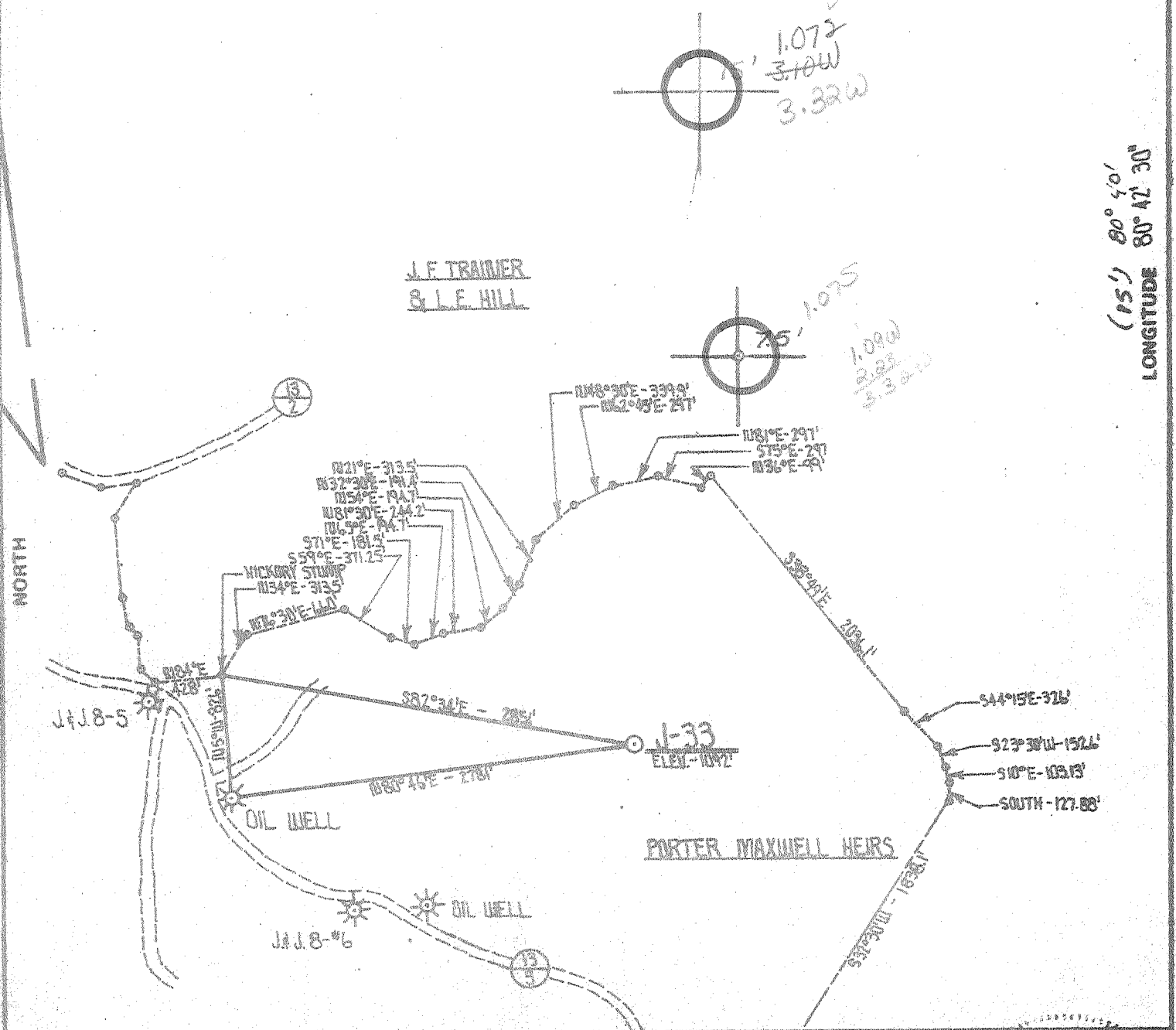
PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5400'  
WELL OPERATOR J. & J. ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT  
ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48  
BUCKHANNON, W. VA. 26201 BUCKHANNON, W. VA. 26201

5680

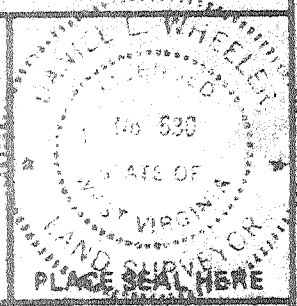
LATITUDE 39° 15'

LONGITUDE 80° 40' 30" (15')



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 RT. 13 & RT. 13/3 EL. - 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) Samuel L. Wheeler  
 R.P.E. \_\_\_\_\_ L.I.S. 530



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



DATE APRIL 29, 1980  
 OPERATOR'S WELL NO. J-33  
 API WELL NO. \_\_\_\_\_  
 WVS: 47 - 017 - 2732  
 STATE COUNTY PERMIT  
 now: 017-2946

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 25 VADIS 15' NW  
 SURFACE OWNER DR. BARON SCHWARZMAN 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 BUCKHANNON, W. VA. 26201 ADDRESS P.O. BOX 48 BUCKHANNON, W. VA. 26201

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

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

WELL TYPE: Oil / Gas  / Liquid Injection / Waste Disposal  
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. DESIGNATED AGENT: Roger Rolston  
Address: Box 48, Buckhannon, WV 26201 Address: Box 48, 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 1/15, 1981, OIL & GAS INSPECTOR FOR THIS WORK:  
Name: Stephen Casey  
Address: Rt. # 2, Box 232-D, Jane Lew, WV 26456

GEOLOGICAL TARGET FORMATION: Alexander Depth: 5130-5238 feet  
Depth of completed well, 5404 feet Rotary  / Cable Tools  
Water strata depth: Fresh, 835 / 995 feet; salt, 0 feet.  
Coal seam depths: None Is coal being mined in the area? No  
Work was commenced 3/30, 1981, and completed 4/5, 1981

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	Max	Used For drilling	Left in well		
Conductor	11 3/4	H-40	42	x	32.50	32.50	0 sks.	Rinds
Fresh water	8 5/8	ERW	23	x	1051.55	1051.55	280 sks.	
Coal	8 5/8	ERW	23	x	1051.55	1051.55	280 sks.	Sides
Intermediate								
Production	4 1/2	J-55	10.5	x	5251	5251		Depth set
Tubing								
Liners								Perforations:
								Top Bottom
								3290 3356
								4889 4892
								5235 5238

RECEIVED  
JUN 24 1981

OPEN FLOW DATA OIL & GAS DIVISION DEPT. OF MINES

Producing formation: Alexander Depth: 5235-5238 feet

Gas: Initial open flow, Mcf/d Oil: Initial open flow, Bbl/d  
Combined Final open flow, 1,100 Mcf/d Final open flow, Bbl/d  
Time of open flow between initial and final tests, 4 hours  
Static rock pressure, 1400 psig (surface measurement) after 96 hours shut in

[If applicable due to multiple completion--]

Second producing formation: Speechley & Benson Pay zone depth: 3290-3356 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

Bottom Hole Pressure Pf=Pwe XGLS  
0.0075)+459.7 T=559.1 x 0.000035 Pf=(1400) (2.72) (0.0000335) (0.650) (4264) (0.5) Pf=(1400) (2.72) (0.084) = (1400) (1.088) Pf=1523 psia

0.0075)+459.7 T=559.1 x 0.000035 Pf=(1400) (2.72) (0.0000335) (0.650) (4264) (0.5) Pf=(1400) (2.72) (0.084) = (1400) (1.088) Pf=1523 psia

JUN 31 1981

[08-78]

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

Alexander: Perforations: 5235-38 (26 holes)  
Fracturing: 500 gal. Acid: 100 sks. 80/100 sand: 350 sks. 20/40 sand: 500 Bbls. fluid

Benson: 4889-4892 (13 holes)  
Fracturing: 500 gal. Acid: 200 sks. 80/100 sand: 300 sks. 20/40 sand: 320 Bbls. fluid.

Speechley: Perforations: 3290-3356 (14 holes)  
Fracturing: 500 gal. Acid: 150 sks. 80/100 sand: 300 sks. 20/40 sand.

WELL 103

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all Green and salt water, coal, oil and gas
Fill			0	5	
Red rock & sand			5	28	Damp @ 220'
Sand, shale & red rock			28	300	
Red rock, sand & shale			300	435	1" stream @ 835'
Red rock, sand & shale			435	535	More water @ 995'
Red rock & shale			535	565	
Sand & shale			565	780	Gas ck @ 2178 20/10-1/2" w/water
Red rock & shale			780	815	8,419 cu.ft.
Sand & shale			815	1830	
Sand & shale			1830	1875	Gas ck @ 2577 28/10-1/2" w/water
Sand			1875	1890	9,955 cu.ft.
Big Lime			1890	1980	
Big Injun			1980	2020	Gas ck @ 4846 13/10-1/2" w/water
Sand & shale			2020	3290	6,788 cu.ft.
Speechley			3290	3356	
Sand & shale			3356	4889	Gas ck @ 4908 26/10-1/2" w/water
Benson			4889	4892	9,810 cu.ft.
Sand & shale			4892	5130	
Alexander			5130	5238	Gas ck @ 5280 70/10-1/2" w/water
Sand & shale			5238	5405TD	15,745 cu.ft.

(Attach separate sheets to complete as necessary.)

J & J Enterprises, Inc.  
Well Operator

By 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 coal, encountered in the drilling of a well."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-33

API Well No. 47 017 2732 State County Permit

now: 017-2946

WELL TYPE: Oil / Gas x /

(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 H.L. Barnett

Address P.O. Box 48 Buckhannon, WV 26201

Address P.O. Box 48 Buckhannon, WV26201

OIL & GAS ROYALTY OWNER Porter Maxwell Heirs

COAL OPERATOR

Address Box 2190 Clarksburg, WV 26301

Address

Acreage 1333.8

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Dr. Aaron Schwartzman

Name Aaron & Veatrice Schwartzman

Address 2007 Dr. Martin Luther King Ave. Washington, D.C. 20070

Address 2007 Nichols Ave., S.E.

Washington, D.C. 20020

Acreage 1333.8

Name

Address

FIELD SALE (IF MADE) TO:

Name Address

COAL LESSEE WITH DECLARATION ON RECORD:

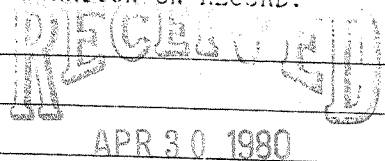
Name NONE

Address

OIL & GAS INSPECTOR TO BE NOTIFIED

Name Paul Garrett Address 321 Beech 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 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 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 COPIES OF PHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 15 WASHINGTON STREET EAST CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

J & J Enterprises, Inc.

Well Operator

BLANKET BOND

By Peter Battles 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

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, 890 feet; salt, 1000 feet.

Approximate coal seam depths: 280 Its 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		
Conductor	1 13/4	H-40	42	X		30	30	0 sks. Sides
Fresh water	8 5/8	ERW	23	X		1100	1100	300 sks.
Coal	8 5/8	ERW	23	X		1100	1100	300 sks. Sides
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 dwelling within 200 feet of the proposed well.

THIS PERMIT MUST BE POSTED AT THE WELL SITE 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 1-12-81.

*Robert T. [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

Date: January 8, 1980

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-33

API Well No. 47-017-2946  
State County Permit  
old no. 2732

WELL TYPE: Oil  / Gas

(If "Gas", Production  / Underground storage  / Deep  / Shallow  /)

LOCATION: Elevation: 1122  
District: New Milton

Watershed: Right Hand Fork of Lick Run  
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, WV26201

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

COAL OPERATOR  
Address

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

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

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  
**RECEIVED**  
JAN 13 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  / 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 action they wish to make or are required to make by Code § 12-4-3 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, 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 25301  
TELEPHONE: (606) 325-3092

BLANKET BOND

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

