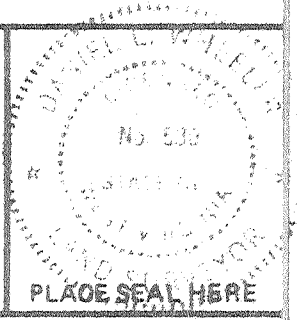


FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION INT. OF RDS. 4,700'
SOUTH OF INT. OF 13 & 13 1/3.
ELEV. - 1245'

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 DECEMBER 17, 19 79
 OPERATOR'S WELL NO. J&J 8-17
 API WELL NO. _____
47 - 017 - 2563
 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 1246' WATER SHED LICK RUN
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5' HOLBROOK 15' N2
 SURFACE OWNER DR. AARON 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 5,340'
 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

6-6 STRAIGHT EX-BLUESTONE CR (34) JAN 15 1980

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

WELL OPERATOR'S REPORT 4
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: 1246 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: Oxford 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 / Convert / Drill deeper / Redrill / Reperforate or stimulate
Plug off old formation / Perforate new 1980
Other physical change in well (specify) _____

PERMIT ISSUED ON 12-21, 19 79
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED _____)
Name Paul Garrett
Address 321 Beech St.
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5145-5225 feet
Depth of completed well, 5350 feet Rotary / Cable Tools
Water strata depth: Fresh, 0 feet; salt, 0 feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced 3-9, 19 80, and completed 3-14, 19 80

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		
Conductor	113/4H-40	35	x	30	0	0 sks.	Rinds
Fresh water	8 5/8 ERW	23	x	603	603	150 sks.	
Coal	8 5/8 ERW	23	x	603	603	150 sks.	Sizes
Intermediate							
Production	4 1/2J-56	10.5	x	5285	5285	800 sks	Leaves set
Tubing							
Liners							Perforations:
							Top Bottom
							5175 5183
							4798 4896
							3267 3373

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5175-83 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Combined Final open flow, 1283 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 1470 psig (surface measurement) after 72 hours shut in
[If applicable due to multiple completion--]
Second producing formation Benson, Riley Pay zone depth 4798-96 feet
Speechley, Balltown Pay zone depth 3267-73 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

TABLE OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL PROPERTIES, ETC.

Alexander : 5175-5183 (17 holes)

Fracturing: 435 BBLs. Fluid 200 sks 80/100 sand:400 sks. 20/40 sand.

Benson & Riley: Perforating: 4798-4896 (14 holes)

Fracturing: 410 BBLs. Fluid: 200 sks 80/100 sand, 400 sks. 20/40 sand

Balltown & Speechley: Perforating 3267-3373 (13 holes)

Fracturing: 365 BBLs. Fluid, 200 sks 80/100 sand. 300 sks. 20/40 sand

WELL LOG

FORMATION	Color	Hard or Soft	4 Feet	Bottom Feet	REMARKS Including indication of oil, gas, and salt water, etc.
Fill			0	12	
Shale			12	20	
Sand			20	25	
Shale			25	30	
Red Rock			30	40	
Sand			40	70	
Red Rock			70	75	
Shale			75	80	
Sand			80	108	
Shale			108	115	
Red Rock			115	143	
Sand			143	168	
Sand & Shale			168	199	
Sand, Red Rock & Shale			199	539	
Red Rock			539	775	
Sand, Shale & Red Rock			775	1159	
White Sand			1159	1190	
Sand & Shale			1190	1287	
Shale			1287	1400	
Sand & Shale			1400	1620	
Sand			1620	1680	
Sand & Shale			1680	1800	
Little Lime			1800	1820	
Big Lime			1820	1950	
Big Injun			1950	2020	
Shale			2020	2170	
Weir			2170	2270	
Shale			2270	2378	
Berea			2378	2383	
Shale			2383	2589	
Gordon			2589	2610	
Shale			2610	2700	
Shaly Sand			2720	2950	
Sand			2950	2950	

(Attach separate logs to complete as necessary.)

J & J Enterprises, Inc.

Well Operator

By

its

Peter Battles

Peter Battles
Geologist

NOTE: Regulation 0.0114 provides as follows:

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

Shale	2964	3000	
Shaly Sand	3000	3100	
Shale	3100	3240	
Speechley	3240	3356	
Shale	3356	3510	
Shaly Sand	3510	3520	
Shale	3520	4000	
Sand	4000	4006	
Shale	4006	4108	
Sand	4108	4112	
Shale & Sand	4112	4300	
Sand	4300	4315	
Shaly Sand	4315	4435	
Sand	4435	4442	
Shale	4442	4640	
Sand	4640	4670	
Shale	4670	4780	
Sand	4780	4800	
Shale	4800	4872	
Eenson	- 4872	4880	
Shale	4880	5002	
Leopold	5002	5022	
Shale	5022	5130	
<u>Alexander</u>	5130	5200	
Shale	5220	T.D.	
		5351	

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

Date December 20, 1979, 19

FORM IV-2
(Obverse)

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. JJ-8-#17
API Well No. 47 - 017 - 2563
State County Permit

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

LOCATION: Elevation: 1246 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: Oxford 7 1/2

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

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

OIL & GAS ROYALTY OWNER Porter Maxwell Heirs
Address Box 2190
Clarksburg, W. Va. 26301

COAL OPERATOR NONE
Address _____

ACREAGE 1333.8
SURFACE OWNER Dr. Aaron Schwartzman
Address 2007 Dr. Martin Luther King Ave.
Washington, D. C. 20020

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 DEC 21 1979

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
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 / dated October 24, 1979, to the undersigned well operator from Delmur Oil Company

[If said deed, lease, or other contract has been recorded:]
Recorded on October 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 old formation / Perforate new formation /
Other typical change in well (specify) _____

Attached to or with the work order on the reverse side hereof.

The above named well operator, coal owner(s), and coal lessee are hereby notified that any other permits which 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 GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1616 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

J & J ENTERPRISES, INC.
Well Operator
By Peter Battles
PETER BATTLES
Its _____ 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 Company
Address P. O. Box 48
Buckhannon, W. Va. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5500 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 400 feet; salt, 1400 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		Kinds	None
Conductor	11 3/4	H-40	42	X		30	0	0 sks.	Kinds	None
Fresh water	8 5/8	ERW	23	X		1500	1500	320 sks.		
Coal	8 5/8	ERW	23	X		1500	1500	320 sks.	Sizes	
Intermediate										
Production	4 1/2	J-55	10.5	X		5475	5475	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 dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where such 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. This permit shall expire if operations have not commenced by 8-26-80.

[Signature]

Deputy Director - Oil & Gas Division

This permit must be filed by the coal operator and by any coal owner or coal lessee who has made a declaration under Code § 22-4-20, if the permit is to be used 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 _____