



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF  
 ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF  
 ELEVATION B.M. 1800' NORTH OF  
INTER. OF 13 & 13 1/2 E. 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 REGU-  
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
 MENT OF MINES.  
 (SIGNED) *Aaron Schwartzman*  
 R.P.E. \_\_\_\_\_ L.L.S. 530

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE FEBRUARY 6, 1980  
 OPERATOR'S WELL NO. J & J 8-6  
 API WELL NO. 47-017-2596  
 STATE COUNTY PERMIT

WELL TYPE: OIL    GAS X LIQUID INJECTION    WASTE DISPOSAL     
 (IF "GAS,") PRODUCTION X STORAGE    DEEP    SHALLOW X  
 LOCATION: ELEVATION 1150' WATER SHED LOCK RUN  
 DISTRICT NEW MILTON COUNTY DODDRIDGE  
 QUADRANGLE NEW MILTON 7.5' 140'S 15'E 1 NW  
 SURFACE OWNER DR. AARON SCHWARTZMAN ACREAGE 1333.8  
 OIL & GAS ROYALTY OWNER PORTER MAXWELL HEIRS LEASE ACREAGE 1333.8  
 LEASE NO. 2618  
 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 5350'  
 WELL OPERATOR J & J ENTERPRISES, INC. DESIGNATED AGENT HARRY BARRETT  
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48  
BUCKHANNON, W. VA. 26201 BUCKHANNON, W. VA. 26201

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Alexander Shale			5123	5226	GAs @ 5278 74/10 thur 1" w/ water
			5226	5340 <i>Alex.</i>	T.D. 5340

JUN 16 1980

Date: 5-12, 19 80

Operator's Well No. J-37

API Well No. 017.2596  
State County Permit

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: 1150 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 2620

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 2-12, 19 80

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name Paul Garrett

Address 321 Beech St.  
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5123-26 feet

Depth of completed well, 5340 feet Rotary  / Cable Tools

Water strata depth: Fresh, 186 feet; salt, 0 feet.

Coal seam depths: 335-339 Is coal being mined in the area? No

Work was commenced 4-16, 19 80, and completed 4-22, 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	For drilling	Left in well		Kinds	None
Conductor	113/4	H-40	42	x		31	0	0 sks	Kinds	None
Fresh water	8 5/8	ERW	23	x		1132.40	1132.40	250 sks		
Coal	8 5/8	ERW	23	x		1132.40	1132.40	250 sks	Sizes	
Intermediate										
Production	4 1/2	J-55	10.5	x		5255.55	5255.55	555 sks	Depths set	
Tubing										
Liners									Perforations:	
									Top	Bottom
									4180	4882
									4887	4892
									4652	4182

OIL & GAS DIVISION  
DEPT. OF MINES

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5160-5222 feet

Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
Combined Final open flow, 539 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 80 hours shut in

[If applicable due to multiple completion--]

Second producing formation Benson, Warren, Riley & Balltown Pay zone depth 4887-4892

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

(Continue on reverse side)

JUN 16 1980

[08-78]

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

Alexander: Perforations: 5160-5222 (16 holes)

Fracturing: 500 gal Acid: 120 lbs. 80/100 sand, 1520 lbs. 20/40 sand, 507 Bbls fluid.

Benson, Riley & Bradford: Perforating : 4887-92 (11 Holes) 4652-4182 (15 holes)  
Fracturing

Fracturing: 1000 gal Acid, 30,000 lbs. 80/100 sand  
60,000 lbs. 20/40 sand: 1137 Bbls Fluid.

WELL LOG

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	
Shale			15	35	
Sand			35	70	
Red Rock			70	85	
Shale			85	100	
Sand			100	108	
Red Rock			108	160	
Sand			160	175	Damp @ 113
Red Rock			175	208	Damp @ 139
Sand			208	220	Water @ 189
Red Rock & Sand			220	232	
Sand & Shale			232	335	
Coal			335	339	
Sand, Shale & Red Rock			339	415	
Sand & shale			415	450	
Red Rock & Shale			450	530	
Sand & Shale			530	540	
Red Rock & Shale			540	880	
Red Rock			880	900	
Sand & Shale			900	1251	Damp @ 915
Sand & Shale			1251	1795	
Little Lime			1795	1826	
Big Lime			1826	1855	
Big Injun			1855	1940	
Sandy Shale			1940	2168	
Weir			2168	2255	
Sand & Shale			2255	3230	
peechley			3230	3330	
Sand & Shale			3330	3640	
Balltown			3640	3660	
Sand & Shale			3660	4878	
Benson ✓			4878	4882	Gas @ 4938 80/100 thru 1" v
Sand & Shale			4882	5123	water

(Attach separate sheets to complete as necessary)

J & J Enterprises, Inc.

Well Operator

By

*Daniel Stark*  
Daniel Stark

Its

Geologist

NOTE: Regulation C.0216 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. JJ-8- #6  
API Well No. 47-017-2596  
State County Permit

WELL TYPE: Oil / Gas X /  
(If "Gas", Production X / Underground storage / Deep / Shallow X /)  
LOCATION: Elevation: 1150 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, 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 \_\_\_\_\_

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

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Aaron & Veatrice Schwartzman  
Address 2007 Nicholas 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 St.  
Clarksburg, W. Va. 26301

COAL LESSEE WITH DECLARATION ON RECORD:  
Name None  
Address \_\_\_\_\_

RECEIVED  
FEB 12 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 X / 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: X / Drill deeper / Redrill / Fracture or stimulate X /

Perforate new formation /

Other technical change in well (specify) \_\_\_\_\_

The work order on the reverse side hereof.

The coal operator, coal owner(s), and coal lessee are hereby notified that any information and data 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  
101 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 346-3092

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, 5550 feet Rotary X / Cable tools      /

Approximate water strata depths: Fresh, 310 feet; salt, 1310 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		1410	1410	350 sks.		
Coal	8 5/8	ERW	23	X		1410	1410	350 sks.	Sizes	
Intermediate										
Production	4 1/2	J-55	10.5	X		5530	5530	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 fracturing is to be part of the work for which a permit is sought and is noted as such on the permit. **THIS PERMIT MUST BE POSTED AT THE WELL SITE**

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 10-13-80

*[Signature]*  
Deputy Director - Oil & Gas Division

The undersigned coal operator and by any coal owner hereby declares under Code § 22-4-20, if the permit is not 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