

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1,000'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION RD. FKS. SLS. RT. 40 @ SLS. RT. 40 1/2. U.E. - 972'

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) Demetrius L. Wadler  
 R.P.E. \_\_\_\_\_ L.L.S. 530

PLACE SEAL HERE

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



DATE JANUARY 30, 19 80  
 OPERATOR'S WELL NO. H-3-3  
 API WELL NO. 47-017-2603  
 STATE WEST VIRGINIA COUNTY BOYD PERMIT 2603

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 960' WATER SHED GRUISE RUN  
 DISTRICT NEW MILTON COUNTY DODDRIDGE  
 QUADRANGLE NEW MILTON 7.5' VADIS 15' NW  
 SURFACE OWNER DR. ARON SCHWARTZMAN ACREAGE 73  
 OIL & GAS ROYALTY OWNER ROBERT HOLLAND LEASE ACREAGE 73  
 LEASE NO. H-3  
 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 5,150'  
 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

Date: August 18, 1980

Operator's Well No. J-129  
 Well No. 017-2603

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

WELL OPERATOR'S REPORT  
 OF

DRILLING, FRACING AND/OR STIMULATION, OR PHYSICAL CHANGE

**RECEIVED**  
 AUG 1 1980  
 OIL & GAS DIVISION  
 DEPARTMENT OF MINES

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

LOCATION: Elevation: 960 Watershed: Grouse Run  
 District: New Milton County: Doddridge Quadrangle: New Milton 7.5

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT H.L. Barnett  
 Address Box 48 Address 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 Feb. 5, 19 80, BY OIL & GAS INSPECTOR FOR THIS WORK:  
 Name Paul Garrett  
 Address 321 Beech St.  
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5100-60 feet  
 Depth of completed well, 5321 feet Rotary  / Cable Tools   
 Water strata depth: Fresh, 45,85 feet; salt, None feet.  
 Coal seam depths: 1340 Is coal being mined in the area? No  
 Work was commenced July 7, 19 80, and completed July 12, 19 80

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-IN OR SACKS (Cubic feet)	BLOCKS	
	Size	Grade	Weight per ft.	New	Used	For drilling		Left in well	None
Conductor	113/4H-40	42	x			36	0	0 sks.	None
Fresh water	8 5/8ERW	23	x			1552	1552	320 sks.	
Coal	8 5/8ERW	23	x			1552	1552	320 sks.	
Intermediate									
Production	4 1/2 J-55	10.5	x			5204	5204	750 sks.	Setting set
Tubing									
Miners									
								3162	3284
								4341	4344
								4705	4797
								5083	5121

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5083-5121 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, 1120 psig (surface measurement) after 96 hours shut in  
 [If applicable due to multiple completion--] 4704-4706  
4341-4344  
 Second producing formation Benson, Riley & Warren Pay zone depth 3162-3284 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

SEP 9 1980

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

Alexander: Perforations: 5083-5121 (12 holes)

Fracturing: 250 lbs. Citric Acid: 200 sks. 80/100 sand: 400 sks.  
20/40 sand: 600 Bbls. fluid.

Benson: Perforations: 4704-4706 (4 holes)

Fracturing: 500 gal. Acid: 150 sks. 80/100 sand: 300 sks. 20/40  
sand: 400 lbs. fluid.

Riley: Perforations: 4341-44 (12 holes)

Fracturing: 500 gal. Acid: 150 sks. 80/100 sand: 300 sks. 20/40 sand:  
400 Bbls. fluid.

Warren: Perforations: 3162-3284 (14 holes)

Fracturing: 500 gal. Acid: 200 sks. 80/100 sand: 400 sks. 20/40  
sand: 600 Bbls. fluid.

SEE LOG

FORMATION	Color	Hard - Scale	Top Feet	Bottom Feet	REMARKS Including Indication of Gas, Oil, and Salt Water, Shale, etc.
Clay			0	15	
Shale			15	40	
Sand			40	108	
Red Rock & Shale			108	125	Damp @ 45'
Shale			125	265	1" stream @ 85'
Red Rock			265	305	
Shale			305	730	
Red Rock & Shale			730	745	
Shale			745	1060	
Sand			1060	1160	
Shale			1160	1305	
Sand & Shale			1305	1360	1/2" stream @ 1340
Shale			1360	1565	
Sand & Shale			1565	1770	
Sand			1770	1800	
Big Lime			1800	1920	
Shale & Sand			1920	1950	
Shale			1950	2445	
Sand & Shale			2490	2780	
Sand			2780	2935	
Warren			2935	3162	ck gas @ 2513 2/10 thru 1 1/2" w
Sand			3162	3284	wat
Shale			3284	3340	ck. gas @ 3192 4/10 thru 1 1/2" .
Sand			3340	3380	wate
Shale			3380	3550	
Riley			3550	4341	ck. gas @ 4643 8/10 thru 1 1/2" .
Shale			4341	4344	wate
Sand			4610	4704	ck. gas @ 4643 8/10 1 1/2" w/wa
Benson			4704	4706	ck. gas @ 5012 6/10 thru 1 1/2" .
Shale			4706	4950	wate
Shale			4950	5083	ck. gas @ 4/10-11/2" w/water
<u>Alexander</u>			5083	5160	
Shale			5160	5321	

At 5083 separate sheets to complete as necessary

T.D. 5321

J & J Enterprises, Inc.

Well Operator

By

*Peter Battles*  
Peter Battles Geologist

Date

NOTE: This log is to be used as a guide only and should not be used as a basis for any other work. It is the responsibility of the user to verify the accuracy of the data and to take appropriate precautions when using the information.

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. H-3-#3  
API Well No. 47-017-2603  
State County Permit

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

LOCATION: Elevation: 960 Watershed: Grouse Run  
District: New Milton County: Doddridge Quadrangle: New Milton 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 Robert Holland  
Address 308 Church Street  
West Union, W. Va. 26456

COAL OPERATOR None  
Address

ACREAGE 73  
SURFACE OWNER Dr. Aaron Schwartzman  
Address 2007 Dr. Martin Luther King Dr.  
Washington, D. C. 20020  
ACREAGE 73

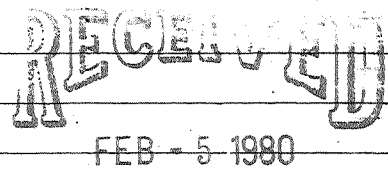
COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Robert Holland/Clyde Frashure  
Address 308 Church Street  
West Union, W. Va. 26456

FIELD SALE (IF MADE) TO:  
Name  
Address

Name  
Address

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Paul Garrett  
Address 321 Beech Street  
Clarksburg, W. Va. 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 x / other contract \_\_\_ / dated July 5, 1979, to the undersigned well operator from Robert Holland

[If said deed, lease, or other contract has been recorded:]  
Recorded on July 6, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Lease Book 109 at page 124. A permit is requested as follows:

PROPOSED WORK: Drill X / Re-drill \_\_\_ / Fracture or stimulate X /  
Perforate new formation \_\_\_ /  
Other physical change in well (specify)

Application is to be on the work order on the reverse side hereof.  
The coal operator(s), coal owner(s), and coal lessee are hereby notified that any additional work or work required to be made 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) 348-3092

BLANKET BOHS

J & J Enterprises, Inc.  
Well Operator  
By H. L. Barnett  
DESIGNATED AGENT

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, 5600 feet Rotary X / Cable tools      /

Approximate water strata depths: Fresh, 100 feet; salt, 1000 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		Kind	Depth
Conductor	11 3/4	H-40	42	X		30	0	0 sks.	None	
Fresh water	8 5/8	ERW	23	X		1450	1450	350 sks.		
Coal	8 5/8	ERW	23	X		1450	1450	350 sks.	Sizes	
Intermediate										
Production	4 1/2	J-55	10.5	X		5600	5600	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 work 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 10-19-80.

*Robert R. [Signature]*  
Deputy Director - Oil & Gas Division

This permit is valid only if approved 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 located within 200 feet of the site 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