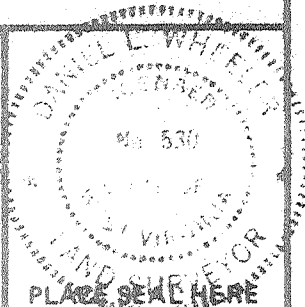


FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1,000'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION B.M. - 1800' NORTH OF INT. RTS. 13 & 13/3. ELEV. - 1248'

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-47  
 API WELL NO. 47 - 017 - 2734  
 STATE COUNTY PERMIT

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 1129' WATER SHED LICK RUN  
 DISTRICT NEW MILTON COUNTY DODDRIDGE  
 QUADRANGLE NEW MILTON 75' VADIS 15' NW  
 SURFACE OWNER DR. KAROL SCHWARTZ ACREAGE 1333.8'  
 OIL & GAS ROYALTY OWNER PORTER MAXWELL HEIRS LEASE ACREAGE \_\_\_\_\_  
 LEASE NO. J-47-B  
 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 BUCKHANNON, W. VA. 26201 ADDRESS P.O. BOX 48 BUCKHANNON, W. VA. 26201

66 PORTO RICO

JUN 17 1980

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FORM IV-35  
(Obsolete)  
[08-78]

JUL 14 1980

Date: 7-11, 19 80  
Operator's Well No. J-42  
API Well No. 017 2734  
State County Permit

OIL & GAS DIV.  
DEPT. OF M.

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: 1129 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 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 4-30, 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 5165-5225 feet  
Depth of completed well, 5369 feet Rotary  / Cable Tools \_\_\_  
Water strata depth: Fresh, 1370 feet; salt, 1445 feet.  
Coal seam depths: 12-13, 255-58 Is coal being mined in the area? No  
Work was commenced 6-12, 19 80, and completed 6-18, 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
Conductor	1 3/4	H-40	42	x		33.50	33.50	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1522.10	1522.10	360 sks.	
Coal	8 5/8	ERW	23	x		1522.10	1522.10	360 sks.	Sizes
Intermediate									
Production	1 1/2	J-55	10.5	x		5329	5329	750 sks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom
									3245 3371
									4263 4428
									5160 5220

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5160 - 5220 feet  
Gas: Initial open flow, \_\_\_ Mcf/d Oil: Initial open flow, \_\_\_ Bbl/d  
Combined Final open flow, 311 Mcf/d Final open flow, \_\_\_ Bbl/d  
Time of open flow between initial and final tests, 4 hours  
Static rock pressure, 1600 psig (surface measurement) after 96 hours shut in 4263-4428  
[If applicable due to multiple completion--]  
Second producing formation Benson & Warren Pay zone depth 3245 - 3371 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

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Continued on reverse

TABLE OF PERFORATED INTERVALS, FRACTURING OF STIMULATING, PHYSICAL CHANGE, ETC.

Alexander; Perforations: 5160-5220 (15 holes)  
Fracturing: 200 lbs. Citric Acid: 300 sks.. 80/100 sand: 300 sks.  
20/40 sand: 550 Bbls. fluid.

Benson: Perforations: 4263-4428 (10 holes)  
Fracturing: 500 gal Acid: 200 sks. 80/100 sand: 300 lbs. sand: 400  
Bbls fluid

Warren: Perforations: 3245-3371 (13 holes)  
Fracturing: 500 gal. Acid: 200 sks. 80/100 sand: 400 sks. 20/40 sand:  
550 Bbls. fluid.

11 103

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Fill			0	12	
Coal			12	13	
Shale			13	45	
Sand			45	65	
Red Rock			65	70	
Sand & Shale			70	90	
Red Rock & Shale			90	110	
Red Rock & Sand			110	130	
Red Rock			130	140	
Sand & Shale			140	150	
Sand & Shale			150	180	
Sand, Shale & Red Rock			180	255	
Coal			255	258	
Shale, Sand & Red Rock			258	335	
Sand & Red Rock			335	339	
Sand & Shale			369	400	
Red Rock, Sand, & Shale			400	480	
Red Rock			480	495	
Sand & Shale			495	510	
Sand & Shale			510	660	Water @ 1190
Red Rock & Shale			660	820	
Sand & Shale			820	1188	
Sand & Shale			1188	1365	Wet @ 1370
Salt Sand			1365	1445	Wet @ 1438
Sand & Shale			1445	1895	
Big Lime			1895	1955	
Injun			1955	2020	
Sand & shale			2020	2280	
Shale			2280	2340	Gas ck. @ 2329 10/10 1/2" w/wate
Sand			2340	2390	
Sand			2390	2410	
Sand & Shale			2410	3245	
Warren			3245	3371	

(Attach separate sheets to complete as necessary.)

J & J Enterprises, Inc.

By Peter Battles  
Peter Battles  
Geologist

NOTE: Regulation 2.02161 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."

FORMATION	Color	Hard Soft	Top Feet	Bottom Feet	REMARKS Including indication of gas, fresh and salt water, coal, oil and etc
Sand & Shale			3371	4263	
Sand			4263	4880	
Benson			4880	4885	Gas dk. @ 4911 40/10 thru 1/2"
Sand & Shale			4885	5165	w/water
Alexander			5165	5225	
Shale			5225	5369	T.D. 5369 GAS @ T.D. 6/10 thr 1/2" w/water

AUG 1 1980

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-42

API Well No. 47 - -17 2734  
State County Permi

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

LOCATION: Elevation: 1129 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

COAL OPERATOR None  
Address     

Acreage 1333.8

COAL OWNER(S) WITH DECLARATION ON RECORD:

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

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       
**RECEIVED**  
**APR 30 1980**

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Paul Garrett  
Address 321 Beech St.  
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 obligation 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  
SEISMOLOGICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMISSION  
1619 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

BLANKET BOND

J & J Enterprises, Inc  
Well Operator  
By Peter Battles  
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 X Cable tools     /

Approximate water strata depths: Fresh, 900 feet; salt, 1200 feet.

Approximate coal seam depths: 300 Is coal being mined in the area? Yes      No 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	Left in well		
Conductor	11 3/4	H-40	42	x		30	30	0 sks.	Mines
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			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 § 22-4-13b 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 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