

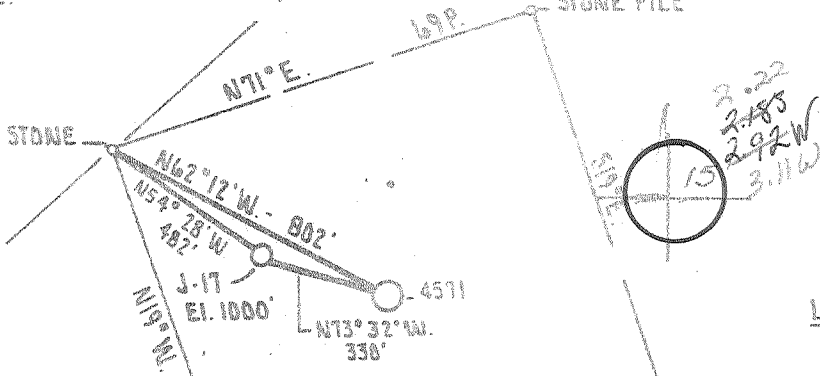
C. P. HUDSON  
32 Ac.

STONE PILE

STONE

NORTH

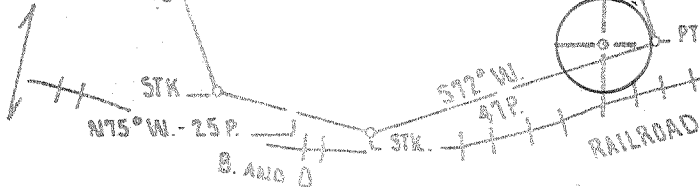
(15) 80° 45'  
LONGITUDE 80° 41' 30"



LEWIS MAXWELL  
420 Ac.

WILLIAM PAUL  
Mc CUTCHEDN  
60 Ac.

39 805  
80 815



LEWIS MAXWELL  
420 Ac.

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF  
ACCURACY 1 PART IN 200  
PROVEN SOURCE OF  
ELEVATION B.M. @ B. AND D.  
RAILROAD TUNNEL: ELEVATION 878'

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) David L. Wheeler  
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 JUNE 26<sup>th</sup> 19 80  
OPERATOR'S WELL NO. J-17  
API WELL NO. \_\_\_\_\_  
47 - 017 - 2814  
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 1000' WATER SHED ARNOLD CREEK  
DISTRICT CENTRAL COUNTY OODDRIDGE  
QUADRANGLE WEST UNION 7.5' & 15' SE

SURFACE OWNER PAUL FARR ACREAGE 60 Ac.  
OIL & GAS ROYALTY OWNER WILLIAM PAUL Mc CUTCHEDN LEASE ACREAGE 60 Ac.  
LEASE NO. J AND J. 13

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 AND J ENTERPRISES INC. DESIGNATED AGENT HARRY BARNETT  
ADDRESS 25 BOX 98 ADDRESS PO BOX 48  
BUCKHANNON WEST VIRGINIA 26201 BUCKHANNON WEST VIRGINIA 26201

(08-78)

WELL OPERATOR'S REPORT 7

OF

API Well No. 47-017-2814  
State County Perm

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: 1000 Watershed: Arnold's Creek  
District: Central County: Doddridge Quadrangle: West Union

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 7-25, 1980 OIL & GAS INSPECTOR FOR THIS WORK:  
Name Paul Garrett  
Address 321 Beech St.  
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5305-55 feet  
Depth of completed well, 5496 feet Rotary  / Cable Tools   
Water strata depth: Fresh, 625, 1400 feet; salt, 1325 feet.  
Coal seam depths: None Is coal being mined in the area? No  
Work was commenced 9-10, 1980, and completed 9-16, 1980

LOGGING AND TUBING PROGRAM

LOGGING 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		32	32	0 sks.	Minds
Fresh water	8 5/8	ERW	23	x		1459.55	1459.55	340 sks.	
Saline	8 5/8	ERW	23	x		1459.55	1459.55	340 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5419.30	5419.30	510 sks.	Double set
Tubing									
Perforations									Perforations: 5299 5331

RECEIVED  
OCT 14 1980

WELL FLOW DATA  
Producing formation Alexander OIL & GAS DIVISION DEPT. of Mines 5299-5331 feet  
Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
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, 1800 psig (surface measurement) after 96 hours shut in.  
[If applicable due to multiple completion--]  
Second producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ 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.

OCT 28 1980

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

Alexander: Perforations: 5299-5331 (13 holes)

Fracturing: 15 gal. Citric Acid: 90,000 lbs. 20/40 sand: 220 Bbls. fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all free and salt water, coal, oil and gas
Fill			0	15	
Red rock			15	25	
Shale			25	45	
Sand & shale			45	189	
Red rock & shale			189	215	
Sand & shale			215	325	
Red rock, shale & sand			325	420	
Red rock, sand & shale			420	515	
Red rock & shale			515	610	1/2" stream water @ 625'
Sand & shale			610	695	
Red rock, sand & shale			695	770	
Sand & shale			770	850	
Sand, shale & red rock			850	880	
Sand, shale & red rock			880	945	
Sand & shale			945	955	
Red rock, sand & shale			955	1080	1/2" stream water @ 1400'
Red rock			1080	1090	
Sand & shale			1090	1270	
Salt sand & shale			1270	1325	
Sand, shale & salt sand			1325	1430	
Sand & shale			1430	1870	
Shale			1870	1960	
Red rock			1960	1980	
Big Lime			1980	2055	
Big Injun			2055	2120	Gas ck. @ 4968 6/10 thru 1/2" w/water
Sand & shale			2120	4905	
Brown sand			4905	4915	
Sand & shale			4915	5305	Gas ck. @ 5403 No. show
Alexander			5305	5355	
Shale			5355	5496	
				T.D.	

(Attach separate sheets to complete as necessary)

J & J Enterprises, Inc.

Well Operator

By

*Peter Battles*

Its

Peter Battles

Geologist

NOTE: Regulation 2.02(i) 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."

Date: July 24

Operator's Well No. J-17

API Well No. 47-017  
State County 017-2814

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil \_\_\_ / Gas X /  
(If "Gas", Production X / Underground storage \_\_\_ / Deep \_\_\_ / Shallow X /)  
LOCATION: Elevation: 1000 Watershed: Arnolds Creek  
District: Central County: Doddridge Quadrangle: West Union

WELL OPERATOR J & J Enterprises, Inc.  
Address Box 48  
Buckhannon, WV 26201

DESIGNATED AGENT H.L. Barnett  
Address Box 48  
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER William McCutcheon  
Address Rt. # 2  
Pennsboro, WV 26415

COAL OPERATOR None  
Address

SURFACE OWNER Paul Farr  
Address 201 Court St.  
West Union, WV 26456  
Acreage 60

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Paul Farr  
Address 201 Court St.  
West Union, WV 26456

FIELD SALE (IF MADE) TO:  
Name  
Address

COAL LESSEE WITH DECLARATION ON RECORD:  
Name  
Address  
JUL 25 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 Nov. 21, 1979, to the undersigned well operator from Paul Farr

[If said deed, lease, or other contract has been recorded:]

Recorded on Dec. 1, 1979, in the office of the Clerk of the County Commission Doddridge County, West Virginia, in Oil & Gas lease book 112 at page 539. 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  
GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 548-3092

BLANKET BOND

J & J Enterprises, Inc.  
Well Operator  
By 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 Box 48  
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5400 feet Rotary  / Cable tools  /  
Approximate water strata depths: Fresh, 800 feet; salt, 1000 feet.  
Approximate coal seam depths: None Is coal being mined in the area? Yes  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	113/4	H-40	42	x		30	30	0 sks.	Kinds
Fresh water	85/8	ERW	23	x		1300	1300	280 sks.	
Coal	85/8	ERW	23	x		1300	1300	280 sks.	Sizes
Intermediate									
Production Tubing	1/2	J-55	10.5	x		5300	5300	400 kss.	Depths set
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 or stimulating is to be part of the work for which a permit is sought and 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 4-9-81

[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.