



FILE NO. DE 2-3
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION HIGH POINT OF ELEVATION 400' EAST OF LOCATION. Elev. - 1296'

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) *David E. Warden*
 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 MAY 9, 1980
 OPERATOR'S WELL NO. J-45
 API WELL NO. _____
47 - 017 - 2770
 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 1219' WATER SHED LICK RUN
 DISTRICT NEW MILTON COUNTY DESSAU
 QUADRANGLE NEW MILTON T.S. HERRING S. VADIS 15 NW
 SURFACE OWNER DR. AARON SCHWARTZMAN ACREAGE 1333.8
 OIL & GAS ROYALTY OWNER Porter Maxwell Heirs LEASE ACREAGE 1333.8
 LEASE NO. J-45
 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 3550
 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 Porto Rico (134)

JUL 28 1980

Consolidated

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

Date April 24, 1981

FORM IV-35
(Obverse)

Operator's
Well No. J-45

[08-78]

WELL OPERATOR'S REPORT
OF

API Well No. 47-017-2770
State County Permit

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1219 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: New Milton 7.5'

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT Roger Rolston
Address P.O. Box 48 Address P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201

PERMITTED WORK: Drill x / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate x
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) _____

PERMIT ISSUED ON 6-30, 19 80

OIL & GAS INSPECTOR FOR THIS WORK:
Name Stephen Casey
Address Rt. # 2, Box 232-D
Jane Lew, WV 26378

(IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
_____, 19 _____)

GEOLOGICAL TARGET FORMATION: Alexander Depth _____ feet

Depth of completed well, 5381 feet. Rotary x / Cable Tools _____

Water strata depth: Fresh, 150,560 feet; salt, _____ feet.

Coal seam depths: None Is coal being mined in the area? No

Work was commenced 1/30, 1981, and completed 2/5, 1981

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		32	32	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1278.70	1278.70	300 sks.	Sizes
Coal	8 5/8	ERW	23	x		1278.70	1278.70	300 sks.	
Intermediate									
Production	4 1/2	J-55	10.5	x		5309.95	5309.95	800 sks.	Depths set
Tubing									
Liners									Perforations:
									Top Bottom
									3316 3386
									4464 4468
									4672 4674
									4908 4911

RECEIVED
APR 27 1981
OIL & GAS DIVISION
DEPT. OF MINES

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4908-4911 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Combined Final open flow, 1,632 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 1250 psig (surface measurement) after 96 hours shut in.

[If applicable due to multiple completion--] 3316 -3386 WRRN
4464 -4468 RR Driftford
Second producing formation Riley & Warren Pay zone depth 4672-4674 RL 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.

MAY 21 1981

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

Benson: Perforations: 4908-4911 (13 holes)
 Fracturing: 500 gal. Acid: 100 sjs, 80/100 sand: 280 sks. 20/40 sand: 500 bbls. fluid.

Riley: Perforations: 4672-4468 (8 holes)
 Fracturing: 750 gal. Acid: 150 sks. 80/100 sand: 350 sks. 20/40 sand: 500 Bbls. fluid.

Warren: Perforations: 3316-3386 (12 holes)
 Fracturing: 150 sks. 80/100 sand: 350 sks. 20/40 sand: 500 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	5	
Sand & shale			5	48	Damp @ 150'
Sand & shale			48	205	
Red rock & shale			205	258	Damp @ 560'
Shale & red rock			258	279	
Sand & shale			279	370	Damp @ 1000'
Sand, shale & red rock			370	400	
White sand			400	545	Gas ck @ 2218 8/10-1/2" w/water 5,324 cu.ft.
Sand & gray shale			545	560	
Red rock & white sand			560	580	Gas ck @ 2343 10/10-1/2" w/water 5,953 cu.ft.
White sand			580	645	
Sand & gray shale			645	660	Gas ck @ 3371 70/10-1/2" w/water 15,745 cu.ft.
White sand & red rock			660	780	
Sand & shale			780	1888	Gas ck @ 4454 60/10-1/2" w/water 14,590 cu.ft.
Big Lime			1888	1965	
Big Injun			1965	2055	Gas ck @ 4947 84/10-1" w/water 17,285 cu.ft.
Sand & shale			2055	3316	
Warren			3316	3386	
Sand & shale			3386	4464	
Riley			4464	4468	
Sand & shale			4468	4908	
Benson			4908	4920	
Sand & shale			4920	5195	
Alexander ✓			5195	5275	
Sand & shale			5275	5381 T.D.	

(Attach separate sheets to complete as necessary)

J & J Enterprises, Inc.
 Well Operator

By Peter Battles
 Peter Battles

Its _____ 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."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-45
API Well No. 47-017 2770
State County Permi

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /)
LOCATION: Elevation: 1219 Watershed: Lick Run
District: New Milton County: Doddridge Quadrangle: New Milton 7.5'

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 Porter Maxwell Heirs
Address Box 2190
Clarksburg, WV 26301

COAL OPERATOR None
Address

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

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

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech St.
Clarksburg, WV 26301

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address

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 location they wish to make or are required to make by Code § 5-2-3 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 map 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 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 PHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
100 WASHINGTON STREET EAST
CHARLESTON, WV 25311

PHONE: (304) 548-3392

OIL & GAS DIVISION
DEPT. OF MINES

J & J Enterprises, Inc.
Well Operator
By Daniel Stark
Its Geologist

BLANKET BOND

JUN 18 1980

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, 5425 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 950 feet; salt, 1470 feet.

Approximate coal seam depths: 380 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	4H-40	42	x		30	0	0 sks	Kinds
Fresh water	85/8	ERW	23	x		1520	1520	380 sks	
Coal	85/8	ERW	23	x		1520	1520	380 sks	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5400	5400	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.

THIS PERMIT ~~MAY BE~~ ^{SHALL NOT BE} ~~FOOTED AT THE WELL SITE~~ where fracturing or stimulating is to be part of the work for which a permit is sought and is filed 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 3-2-81

[Signature]

Deputy Director - Oil & Gas Division

The following notice must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-22, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I T 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.