



FILE NO _____
 DRAWING NO. _____
 SCALE 1"=1,000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION J & J ENTERPRISES, INC. WELL J&J-8-5 ELEV. 1161'

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) *Dennis L. Wheeler*
 R.P.E. _____ L.L.S. 530

PLACE SEAL HERE

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



DATE APRIL 22 19 80
 OPERATOR'S WELL NO J&J-8-7-4
 API WELL NO 47 017 2701
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
 LOCATION: ELEVATION 985' WATER SHED LICK RUN
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 75' 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&J-8
 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 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

JUL 31 1980

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

OIL & GAS DIVISION
DEPT. OF MINES
WELL OPERATOR'S REPORT OF
DRILLING, FRACURING AND STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow
LOCATION: Elevation: 985 Water used: 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 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 4-28, 19____, OIL & GAS INSPECTOR FOR THIS WORK:
Name Paul Garrett
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Address 321 Beech St.
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 4960-5015 feet
Depth of completed well, 5184 feet Rotary / Cable Tools
Water strata depth: Fresh, 65 168 feet; salt, None feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced 6-19, 19 80, and completed 6-25, 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		
Conductor	113/4H-40	42	X			32	32	0 sks. Rinds
Fresh water	85/8 ERW	23	X			999.95	999.95	240 sks.
Coal	85/8 ERW	23	X			999.95	999.95	240 sks. Sizes
Intermediate								
Production	41/2 J-55	10.5	X			5117.80	5117.80	770 sks. Casing set
Tubing								
Liners								Perforations:
								Top Bottom
								3047 3125
								3970 3985
								4215 4228
								4672 4674
								4954 4981 Alex

OPEN FLOW DATA
Producing formation Alexander Pay zone depth 4215-4981 feet

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 1905 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 96 hours shut-in
(If applicable due to multiple completion--)? 3969-3985 3098-3127

Second producing formation Benson, Bradford & Warren Pay zone depth 3047-3051 WPAW

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

AUG 11 1980

PERFORATED INTERVALS, FRACTURING OPERATIONS, PHYSICAL PROPERTIES, ETC.

Alexander: Perforations: 4954-81 (1 Holes) 4215-4674 (8 Holes)
Fracturing: 600 sks. 20/40 sand: 600 Bbls. fluid.

Conson: Perforations: 3969-3985 (1 Holes)
Fracturing: 200 sks. 80/100 sand: 300 sks 20/40 sand: 700 gal. Acid:
500 Bbls. fluid.

Bradford: Perforations: 3098-3127 (6 Holes)
Fracturing: 150 sks. 80/100 sand: 300 sks. 20/40 sand:
500 gal. Acid: 400 Bbls. fluid.

Warren: Perforations: 3047-3051 (4 shots)
Fracturing: 500 gal Acid: 150 sks. 80/100 sand: 300 sks. 20/40
sand: 500 Bbls. fluid.

Well 100

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of gas, oil, water, and salt water, coal, etc.
Fill			0	20	
Sand			20	25	
Shale			25	35	
Sand			35	65	Wet @ 65'
Red Rock			65	85	
Sand			85	115	
Red Rock, Shale & Sand			115	170	Water @ 168'
White Sand			170	210	
Red Rock			210	215	
Sand			215	360	
Sand & Shale			360	470	
Shale			470	480	
Red Rock			480	500	
Sand & Shale			500	560	
Red Rock			560	565	
Sand & Red Rock			565	600	
Sand & Shale			600	630	
Shale & Red Rock			630	670	
Sand & Shale			670	690	
Sand			690	720	
Sand & Red Rock			720	790	
Sand & Shale			790	1188	
Sand			1188	1340	
Sand & Shale			1340	1403	
Sand			1403	1436	
Sand & Shale			1436	1655	
Sand & Lime			1655	1695	
Big Lime			1695	1770	
Big Injun			1770	1820	Gas Ck. @ 1871 14/10 thru 1/2" w/water
Sand & Shale			1820	3047	
Warren			3047	3098	
Bradford			3098	3127	
Sand & Shale			3127	3365	

Attach separate sheets to complete as necessary.

J & J Enterprises, Inc.

Well Operator

By Peter Battles
Peter Battles
Geologist

NOTE: Regulation 0.001(d) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologic record of all formations, including coal, encountered in the drilling of a well."

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	REMARKS Including indication of gas, oil, and salt water, grain, etc.
Sand			3365	3396	Gas ck. @ 4539 20/10 thru 1/2
Sand & Shale			3396	3969	w/water
Sand			3969	3985	Gas ck. @ 4720 38/10 thru 1/2
Benson [?]			3985	4680	w/water
Sand & Shale			4680	4954	
Sand Alexander			4954	5015	
Shale			5015	5184	T.D. 5184

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-41

API Well No. 47 - 017 2701
State County Boone

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

LOCATION: Elevation: 985 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 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, WV 26301

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address
APR 28 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 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 ___ / 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 objection 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
1619 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

J & J Enterprises, Inc.
Well Operator
By Peter Battles
Peter Battles
Its 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, 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
Conductor	1 13/4	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 § 22-4-13f 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 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 12-31-80.

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

The following waiver must be completed by the well 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 plan 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