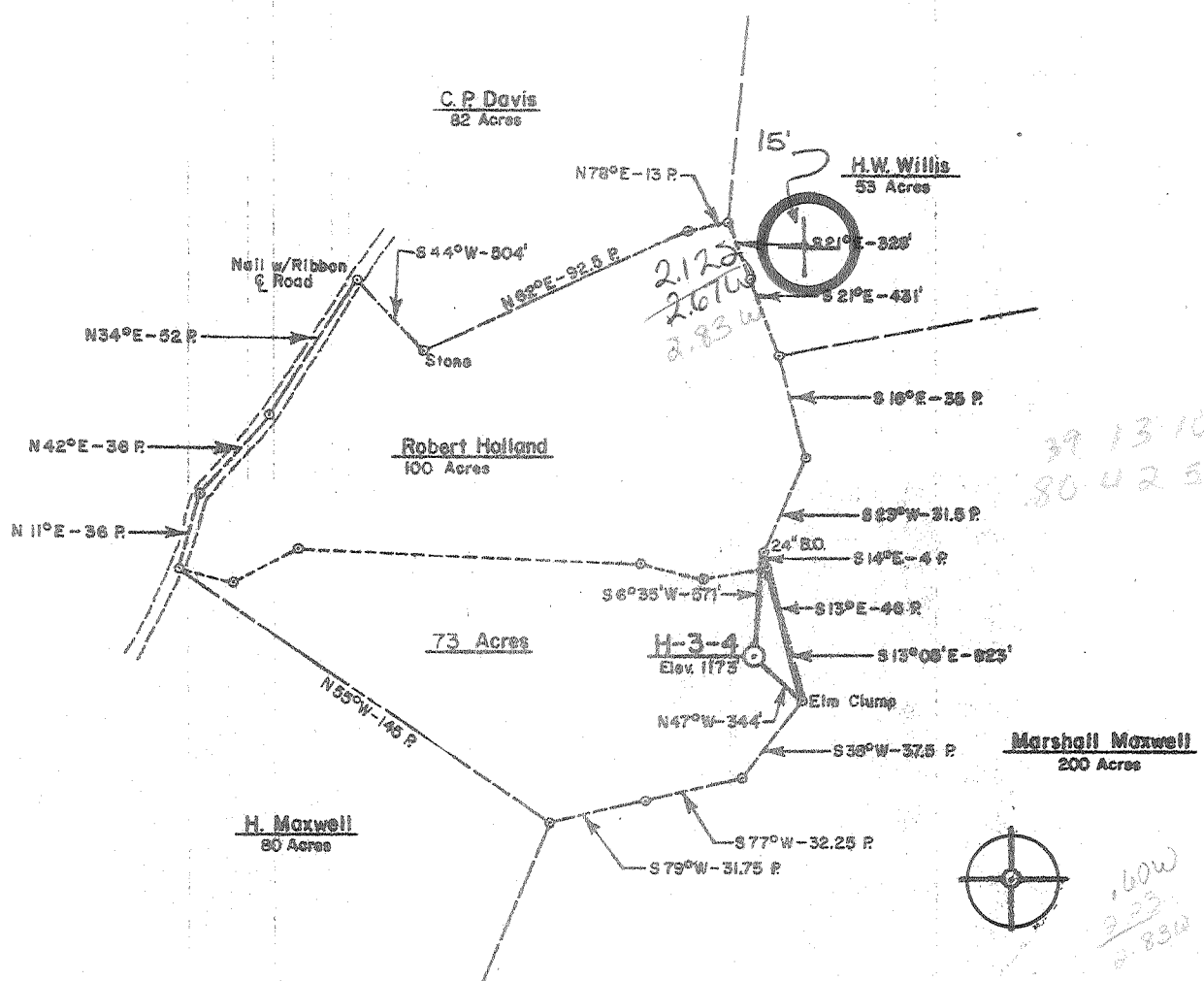


LATITUDE 39° 15' 00"

LONGITUDE 80° 42' 30"

NORTH



39 13 10
80 42 55

160W
2.23
2.834

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 Part in 200
 PROVEN SOURCE OF ELEVATION Rd. Fks. S.L.S. Rt. 40
B. S.L.S. 40/3 U.E.-872'

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 L. Medlin
 R.P.E. _____ L.L.S. 530

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

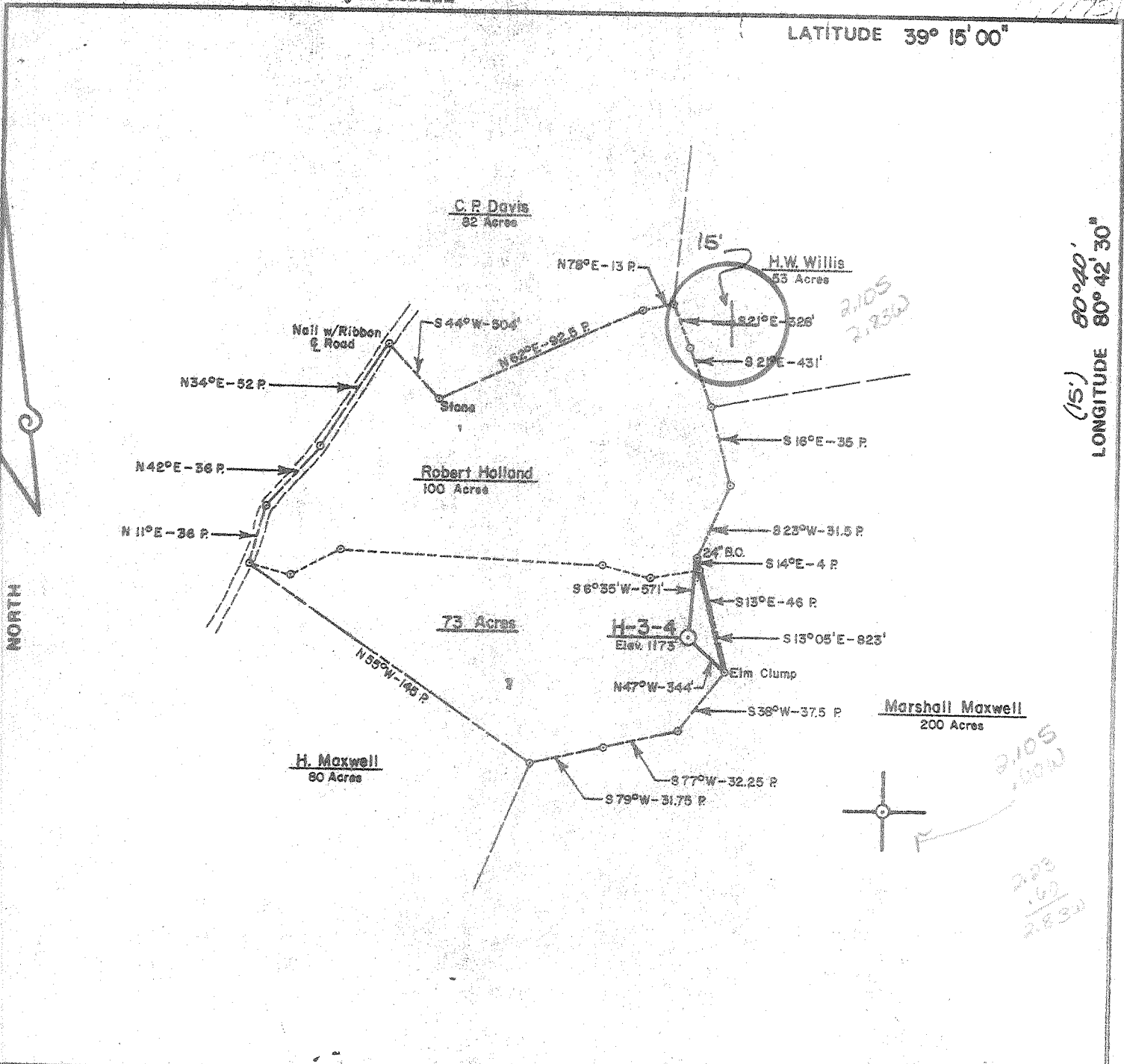
DATE November 4 19 79
 OPERATOR'S WELL NO. 3-150
 API WELL NO. _____
47 - 017 - 2786
 STATE COUNTY PERMIT
FORMERLY 2531

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1173' WATER SHED Grouse Run
 DISTRICT New Milton COUNTY Doddridge
 QUADRANGLE New Milton 7.5' VADIS NW
 SURFACE OWNER Dr. Aaron Schwartzman ACREAGE 73
 OIL & GAS ROYALTY OWNER Robert Holland (CLYDE FRESHWATER) LEASE ACREAGE 73
 LEASE NO. H-3-4
 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 5150'
 WELL OPERATOR J. & J. Enterprises DESIGNATED AGENT Harry Barnett
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buchannon, W.Va. 26301 Buchannon, W.Va. 26301

6-4 PORTO RICO

134 AUG 1 1980



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1,000'
 MINIMUM DEGREE OF ACCURACY 1 Part In 200
 PROVEN SOURCE OF ELEVATION Rd. Fks. S.L.S. Rt. 40 @ S.L.S. 40/3 U.E.-872

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. Thaler*
 R.P.E. _____ L.L.S. 530

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE November 4 19 79
 OPERATOR'S WELL NO: H-3-4
 API WELL NO. _____
47 - 017 - 2531
 STATE COUNTY PERM JT
 now 017 - 2786

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS.") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1173' WATER SHED Grouse Run
 DISTRICT New Milton COUNTY Doddridge
 QUADRANGLE New Milton 7.5', VADIS NW
 SURFACE OWNER Dr. Aaron Schwartzman ACREAGE 73
 OIL & GAS ROYALTY OWNER Robert Holland (CLYDE FRASURE) LEASE ACREAGE 73
 LEASE NO. H-3-4
 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 5150' NOV 28 1979
 WELL OPERATOR J & J Enterprises DESIGNATED AGENT Harry Barnett
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buchannon, W.Va. 26301 Buchannon, W.Va. 26301

[08-78]

Date: 9-17, 1980

Operator's Well No. J-130

API Well No. 47-017-2786
(State Survey Permit)

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

WELL OPERATOR'S REPORT
OF
DRILLING, FRACING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow
LOCATION: Elevation: 1173 / 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 to stimulate
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

PERMIT ISSUED ON Nov. 7, 1979 / OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Paul Garrett
Address 321 Beech St.
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander / Depth 5330-5400 feet
Depth of completed well 5519 feet / Rotary / Cable Tools
Water strata depth: Fresh, 1570 feet; salt, 1311-50 feet.
Coal seam depths: None / Is coal being mined in the area? NO
Work was commenced 7-10, 1980, and completed 7-15, 1980

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	113/4H-40	42	X			32	32	0 sks.	None
Fresh water	85/8	ERW	23	X		1597.25	1597.25	350 sks.	
Coal	85/8	ERW	23	X		1597.25	1597.25	350 sks.	None
Intermediate									
Production	41/2	J-55	10.5	X		5464.55	5464.55	700 sks.	None set
Tubing									
Liners									Perforations:
									5333 - 5393
									4936 - 5047
									3504 - 3529
									3408 - 3474

RECEIVED
SEP 18 1980

OPEN FLOW DATA / OIL & GAS DIVISION / DEPT. OF MINES
Producing formation Alexander / Pay zone depth 5330-5400 feet
Gas: Initial open flow, _____ Mcf/d / Oil: Initial open flow, _____ Bbl/d
Final open flow, 311 Mcf/d / Final open flow, _____ Bbl/d
Combined / Time of open flow between initial and final tests, 4 hours
Static rock pressure, 850 psig (surface measurement) after 72 hours shut in
[If applicable due to multiple completion--] / 3408-3529
Second producing formation Benson & Warren / Pay zone depth 4936-5047 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

Continued on reverse side

OCT 9 1980

08-783

DETAILS OF PERFORATED INTERVALS, FRACTURING OF PERFORATIONS, PHYSICAL CHANGE, ETC.

Alexander: Perforations: 5333-5373 (14 holes)

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

Benson: Perforations: 4936-5047 (14 holes)

Fracturing: 500 gal. Acid: 150 sks. 80/100 sand: 300 sks. 20/40 sand: 600 Bbls. fluid.

Warren: Perforations: 3408-3529 (25 holes)

Fracturing: 20 gal. Acid: 150 sks. 80/100 sand: 400 sks. 20/40 sand: 600 Bbls. fluid.

WELL LOG

FORMATION	Color	Hardness	Top Feet	Bottom Feet	Remarks Including Indication of Gas, Oil, or and salt water, etc.
Fill			0	12	
Sand & Shale			12	25	
Shale			25	30	
Red Rock			30	45	
Sand			45	93	
Shale & Red Rock			93	125	
Sand			125	149	
Red Rock & shale			149	185	
Sand			185	225	
Red Rock & Shale			225	250	Damp @ 290'
Sand & Shale			265	275	
Red Rock & Shale			275	335	Damp @ 330'
Sand			335	360	
Red Rock & Shale			360	400	
Sand & Shale			400	550	
Red Rock & Shale			550	760	
Sand & Shale			760	855	
Red Rock & Shale			760	855	
Sand			855	870	Damp @ 865'
Red Rock & Shale			870	915	
Sand & Shale			915	930	
Red Rock & Shale			930	940	
Shale & Sand			940	1311	Damp @ 1335'
Salt Sand			1311	1350	Damp @ 1335
Sand & Shale			1350	1540	
Sand			1540	1580	1/2" stream @ 1570
Sand & Shale			1580	1810	
Sand			1810	1842	
Sand & Shale			1842	2000	
Sand			2000	2070	
Sand			2070	2140	
Big Lime			- 2140	2180	

Attach separate sheets to complets as necessary

J & J Enterprises, INC.

Well Operator

By

Peter Battles

Geo

Geologist

NOTE: Regulation 0.00 is provided as follows:

"The person in charge of well logs shall keep a systematic, detailed geological record of all formations, including well, encountered in the drilling of a well."

FORMATION	Color	Hard or Soft	6		Remarks Including indication of all fresh and salt water, coal, oil and gas
			Top Feet	Bottom Feet	
Big Injun			2140	2180	
Sand & shale			2180	2540	
Sand			2540	2550	
Sand & shale			2550	3408	Gas ck @ 2986 20/10 thru 2"
Sand & shale			3408	3529	
Sand			3529	3705	
Sand & shale			3705	3738	
Sand & shale			3738	4900	Gas ck. @ 4840 14/10 thru 1/2" w/water
Brown sand			4900	4936	
Benson			4936	5330	
Alexander			5330	5400	
Shale			5400	5519	Gas ck. @ 4932 50/10 thru 1/2" w/water
					Gas ck. @ 5426 150/10 thru 1/2" w/water

OCT 9 1980

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. H-3-#4
API Well No. 47-017-2531
State County Permit
now 017-2786

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

LOCATION: Elevation: 1173 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/Clyde R. Frashure
Address 308 Church St./ Morgan's Run
West Union, W. Va.

COAL OPERATOR None
Address

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

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Robert Holland
Address 308 Church St.
West Union, W. Va.
Name Clyde R. Frashure
Address Morgan's Run
West Union, W. Va.

FIELD SALE (IF MADE) TO:
Name
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address
RECEIVED
NOV - 7 1979

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech Street
Clarksburg, W. Va. 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 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 Lease Book 109 at page 124. 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 chemical change in well (specify)

--planned to appear on the work order on the reverse side hereof.

Interested parties, coal owner(s), and coal lessee are hereby notified that any other information 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 filed by registered mail and 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
OR PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
1018 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, W. Va. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5150 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
Conductor	11 3/4	H-40	42	X		30	0	0 sks.	None
Fresh water	8 5/8	ERW	23	X		1300	1300	280 sks.	
Coal	8 5/8	ERW	23	X		1300	1300	280 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5125	5125	250 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 IS NOT TO BE USED AT THE WELL SITE~~
where fracturing or stimulating 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 7-8-80.


Deputy Director - Oil & Gas Division

... by the coal operator and by any coal owner or coal lessee who has not made a declaration under Code § 22-4-20, if the permit is to be used 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 the 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 _____

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-130

API Well No. 47-017-2786
State County Permit

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

LOCATION: Elevation: 1173 Watershed: Grouse Run
District: New Milton County: Doddridge Quadrangle: New Milton 7.5

WELL OPERATOR J&J Enterprises Inc
Address P.O. Box 48
Buckhannon W.V. 26201

DESIGNATED AGENT H.L. Barnett
Address P.O. Box 48
Buckhannon W.V. 26201

OIL & GAS ROYALTY OWNER Robert Holland/Clyde R. Frashure
Address 308 Church St. /Morgans Run
West Union W.V. 26456

COAL OPERATOR None
Address

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

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Robert Holland
Address 308 Church St.
West Union W.V. 26456

FIELD SALE (IF MADE) TO:
Name
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address

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

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 Leasebook 109 at page 124. 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 conditions 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 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 PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
100 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 346-3092

JUL 11 1980
OIL & GAS DIVISION
DEPT. OF MINES

BLANKET BOOK

J&J Enterprises Inc
Well Operator
By Steve Battles
Its Geologists

[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 Co
Address P.O.Box 48
Buckhannon W.V. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5150 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

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, 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 MUST BE POSTED AT THE WEBSITE 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 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 3-10-81

Signature of Deputy Director - Oil & Gas Division

The undersigned 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 forced 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 has examined this proposed well location. If a mine map exists which covers the area of the 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.

By Its