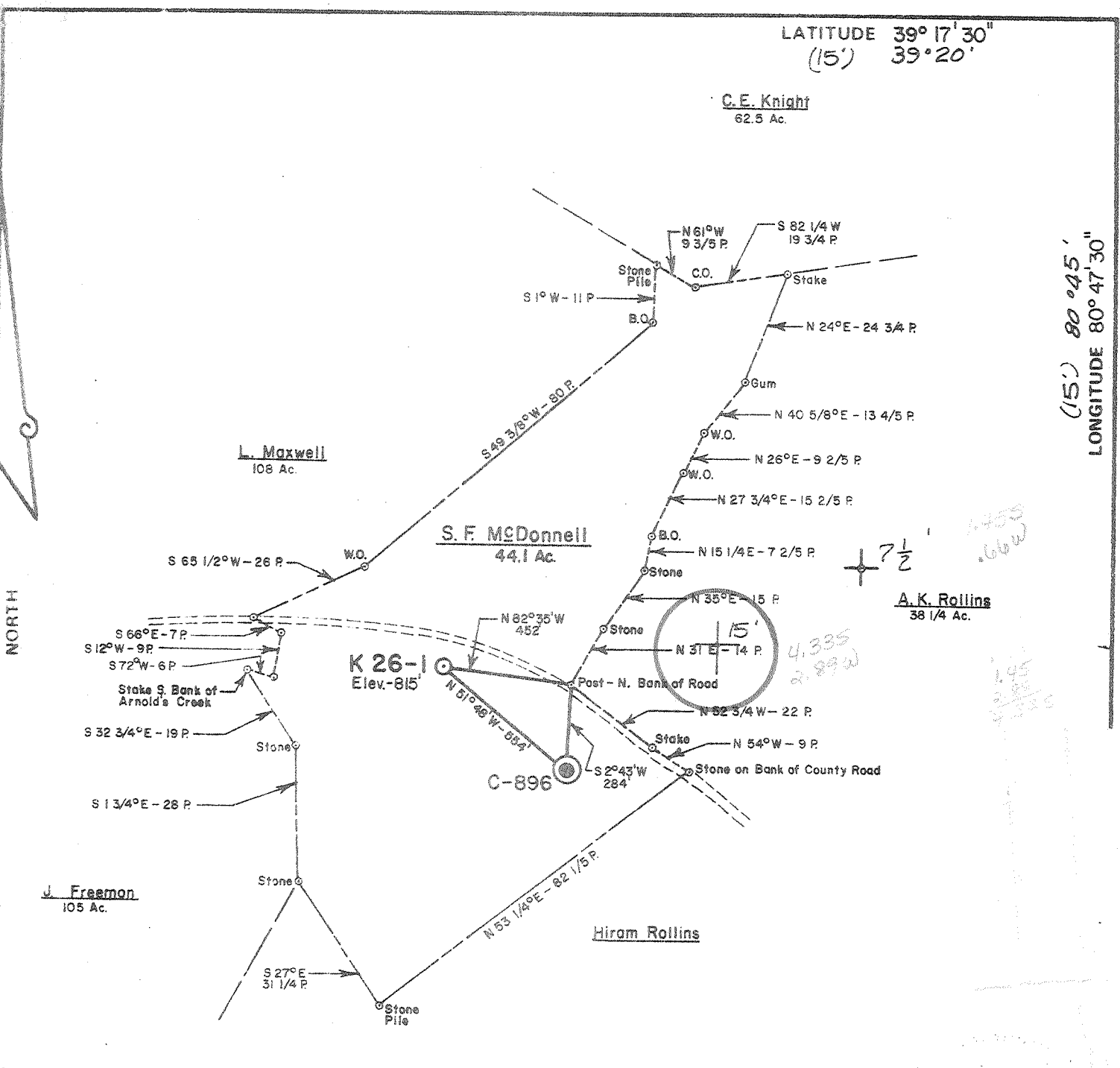


LATITUDE 39° 17' 30"
(15) 39° 20'

C. E. Knight
62.5 Ac.



(15) 80° 45'
LONGITUDE 80° 47' 30"

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 Part In 200'
PROVEN SOURCE OF ELEVATION Jct. Rd. Fks. S.L.S. Rt. II & S.L.S. Rt. II/4 Elev. 816'

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. Menden
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 October 16 19 79
OPERATOR'S WELL NO. K 26-1 Rev.
API WELL NO. _____
47 - 017 - 2503-REV
STATE COUNTY PERMIT

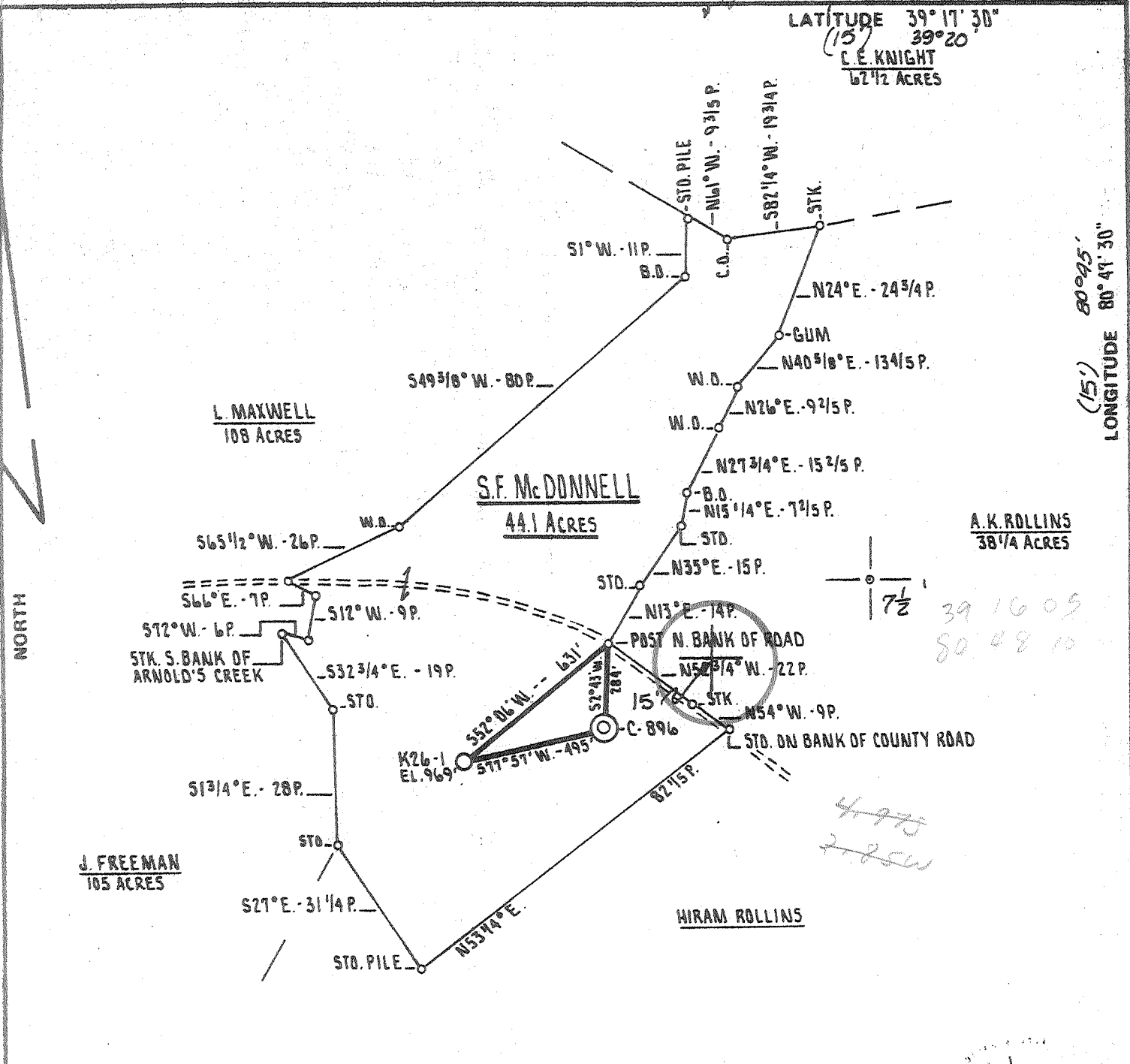
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION ELEVATION 815' WATER SHED Left Fork Of Arnold's Creek
DISTRICT West Union COUNTY Doddridge
QUADRANGLE West Union 7.5', 15' SE
SURFACE OWNER Emory Rollins ACREAGE 44.1 Ac.
OIL & GAS ROYALTY OWNER S. F. McDonnell LEASE ACREAGE 44.1 Ac.
LEASE NO. _____
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 6 1979
WELL OPERATOR J. & J. Enterprises DESIGNATED AGENT Harry Barnett
ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buchannon, W. Va. 26201 Buchannon, W. Va. 26201

LATITUDE $39^{\circ}17'30''$
 (15) $39^{\circ}20'$
 E. E. KNIGHT
 62 1/2 ACRES

(15) $80^{\circ}45'$
 LONGITUDE $80^{\circ}47'30''$



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200'
 PROVEN SOURCE OF ELEVATION Jct. Rd. FKS S.L.S. Rt. II AND S.L.S. Rt. 11/4 ELEVATION 816'

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

PLACE SEAL HERE

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



DATE OCTOBER 3RD 19 79
 OPERATOR'S WELL NO. K26-1
 API WELL NO. 47-017-2503
 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 969' WATER SHED LEFT FORK OF ARNOLD'S CREEK
 DISTRICT WEST UNION COUNTY DODDRIDGE
 QUADRANGLE WEST UNION 7.5', 15'
 SURFACE OWNER EMORY ROLLINS ACREAGE 44.1 Ac.
 OIL & GAS ROYALTY OWNER S.F. McDONNELL LEASE ACREAGE 44.1 Ac.
 LEASE NO. K-26-41
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL X 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 5150' - 5350' OCT 25 1979
 WELL OPERATOR J. and J. ENTERPRISES DESIGNATED AGENT HARRY BARNETT
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
BUCKHANNON, WEST VIRGINIA 26201 BUCKHANNON, WEST VIRGINIA 26201

RECEIVED

NOV 26 1979

Date: Nov. 19, 19 79
Operator's Well No. K-26-#1
API Well No. 017-2503 State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
OIL & GAS DIVISION
DEPT. OF MINES

WELL OPERATOR'S REPORT 3
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: 969 Watershed: Left fork of Arnolds Creek
District: West Union County: Doddridge Quadrangle: West Union 7.5
WELL OPERATOR J&J Enterprises, Inc. DESIGNATED AGENT H.L. Barnett
Address P.O. Box 48 Address P.O. Box 48
Buckhannon, W.V. 26201 Buckhannon, W.V. 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 Oct 11, 19 79 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 Street
Clarksburg, W.V. 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 4960 feet
Depth of completed well, 5150 feet Rotary / Cable Tools
Water strata depth: Fresh, 70 feet; salt, 1580 feet.
Coal seam depths: 98-105; 715-718 Is coal being mined in the area? No
Work was commenced 10-29-79, 19 79, and completed 11-5-79, 19 79

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	H40	42	X		27.8	27.8	0	Rinds
Fresh water	85/8	ERW	23	X		946.5	946.5	180	
Coal	85/8	ERW	23	X		946.5	946.5	180	Rinds
Intermediate									
Production	4 1/2	J-55	10.5	X		5068	5068	130	Casing set
Tubing									
Liners									Perforations:
									Top Bottom
									4958 4960
									4964 4966
									4984 4986
									4990 4992

OPEN FLOW DATA
Producing formation Alexander Pay zone depth 4968-5002 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 581 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, _____ hours
Static rock pressure, 1620 psig (surface measurement) after 48 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

DEC 7 1979

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

Alexander: Perforations - 4958-4960, 4 holes; 4964-4966, 4 holes; 4984-4986, 3 holes; 4990-4992, 3 holes.

Fracturing - 500 Gal. Acid, 55,000 lbs. 80/100 mesh, 30,000 lbs. 20/40 mesh, 750 Bbls. fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of gas, oil, water and salt water, coal, etc.
Top Soil			0	50	
Red Rock & Shale			50	98	
Coal			98	105	Coal
Shale			105	139	
Red Rock & Shale			139	195	
Sand			195	330	
Sandy Shale			330	375	
Sand			375	415	
Sand & Shale			415	440	
Sand			440	490	
Red Rock & Shale			490	535	
Sand & Shale			535	566	
Red Rock & Shale			566	665	
Sand & Shale			665	715	
Coal			715	718	Coal
Sand & Shale			718	721	
Red Rock			721	745	
Red Rock & Shale			745	770	
Sand & Shale			770	790	
Black Shale			790	800	
Sandy Shale			800	975	
Shale			975	1070	
Sand & Shale			1070	1100	
Shale			1100	1200	
Sand & Shale			1200	1665	1580' 1" Stream Water
Little Lime			1665	1680	
Big Lime			1680	1765	
Big Injun			1765	1790	
Sand			1790	1825	
Shale			1825	2000	
Shale			2000	2090	
Shale			2090	2300	
Shaley Sand			2300	2400	

(Attach separate sheets as complete as necessary)

J & J ENTERPRISES, INC.

Well Operator

By H. L. Barnett
H. L. BARNETT DESIGNATED AGENT

NOTE: Regulation 2.02(d) 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."

RECEIVED

NOV 26 1979

Date: Nov. 19, 1979

Operator's Well No. K-26-#1

API Well No. - - 017 - 2503
State County Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION
OIL & GAS DIVISION
DEPT. OF MINES

WELL OPERATOR'S REPORT 3
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow X /)
LOCATION: Elevation: 969 / Watershed: Left fork of Arnolds Creek
District: West Union / County: Doddridge / Quadrangle: West Union 7.5
WELL OPERATOR J&J Enterprises, Inc. / DESIGNATED AGENT H.L. Barnett
Address P.O. Box 48 / Address P.O. Box 48
Buckhannon, W.V. 26201 / Buckhannon, W.V. 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 Oct. 11, 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
 , 19 / Address 321 Beech Street
 / Clarksburg, W.V. 26301

GEOLOGICAL TARGET FORMATION: Alexander / Depth 4960 feet
Depth of completed well, 5150 feet / Rotary X / Cable Tools
Water strata depth: Fresh, 70 feet; salt, 1580 feet.
Coal seam depths: 98-105; 715-718 / Is coal being mined in the area? No
Work was commenced 10-29-79, 19 , and completed 11-5-79, 19

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	H40	42	X		27.8	27.8	0	Rinds
Fresh water	85/8	ERW	23	X		946.5	946.5	180	
Coal	85/8	ERW	23	X		946.5	946.5	180	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5068	5068	130	Casing set
Tubing									
Liners									Perforations:
									Top Bottom
									4958 4960
									4964 4966
									4984 4986
									4990 4992

OPEN FLOW DATA

Producing formation Alexander / Pay zone depth 4968-5002 feet
Gas: Initial open flow, Mcf/d / Oil: Initial open flow, Bbl/d
Final open flow, 581 Mcf/d / Final open flow, Bbl/d
Time of open flow between initial and final tests, hours
Static rock pressure, 1620 psig (surface measurement) after 48 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

DEC 7 1979

(Continue on reverse side)

FORMATION	Color	Hard or Soft	3 Feet	Bottom Feet	Remarks Including indication of gas, water, and salt water, etc.
Shale			2400	2450	
Shaley Sand			2450	2700	
Shales			2700	3050	
Sand			3050	3110	
Shaley Sand			3110	3240	
Shale			3240	3290	
Sand			3290	3390	
Shale			3390	3430	
Shaley Sand			3430	3650	
Shale			3650	3760	
Shales & Sands			3760	4000	
Shaley Sand			4000	4070	
Shales			4070	4150	
Sand			4150	4180	
Shales			4180	4240	
Sand			4240	4325	
Shales			4325	4460	
Sand			4460	4530	
Shales			4530	4680	
Shaley Sand			4680	4825	
Shale			4825	4900	
Alexander			4900	5000	
Shales			5000	5151	5119' Gas Check 80/10 thru 1/2"
			TD	5151	

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. K-26-#1

API Well No. 47 - 017 - 2503
State County Permit

WELL TYPE: Oil / Gas X /

(If "Gas", Production X / Underground storage / Deep / Shallow X /)

LOCATION: Elevation: 969' Watershed: Left Fork of Arnolds Creek

District: West Union County: Doddridge Quadrangle: West Union 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 S. F. McDonnell / Emory Rollins

Address 9th Street / Rt. 1
Vienna, W. Va. / West Union, W. Va.

Acreage 41.1

SURFACE OWNER Emory Rollins

Address Route 1
West Union, West Virginia 26456

Acreage 41.1

FIELD SALE (IF MADE) TO:

Name

Address

OIL & GAS INSPECTOR TO BE NOTIFIED

Name Paul Garrett

Address 321 Beech Street
Clarksburg, W. Va. 26301

COAL OPERATOR None

Address

COAL OWNER(S) WITH DECLARATION ON RECORD:

Name None

Address

Name

Address

COAL LESSEE WITH DECLARATION ON RECORD:

Name

Address

RECEIVED
OCT 11 1979

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at this location under a deed / lease X / other contract / dated July 8, 1978, to the undersigned well operator from Emory Rollins

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

Recorded on August 8, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Lease Book 104 at page 359. 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 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
1615 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

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, 5350 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 0 feet; salt, 0 feet.

Approximate coal seam depths: 680-683; 118-120 Is coal being mined in the area? Yes / No /
392-395

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	11 3/4	H-40	42	X		30	30	Kinds
Fresh water	8 5/8	ERW	23	X		800	800	225
Coal	"	"	"	"		"	"	"
Intermediate								Sizes
Production Tubing	4 1/2	J-55	10.5	X		5250	5250	300
Liners								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 WELL SITE
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 is noted as such on the permit. This permit is hereby approved in connection therewith.
If operations being proposed are in violation of Code § 22-4-2, the location is hereby approved of the W. Va. Code, the location is hereby approved

for drilling. This permit shall expire if operations have not commenced by 6-11-80

Robert H. [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 _____