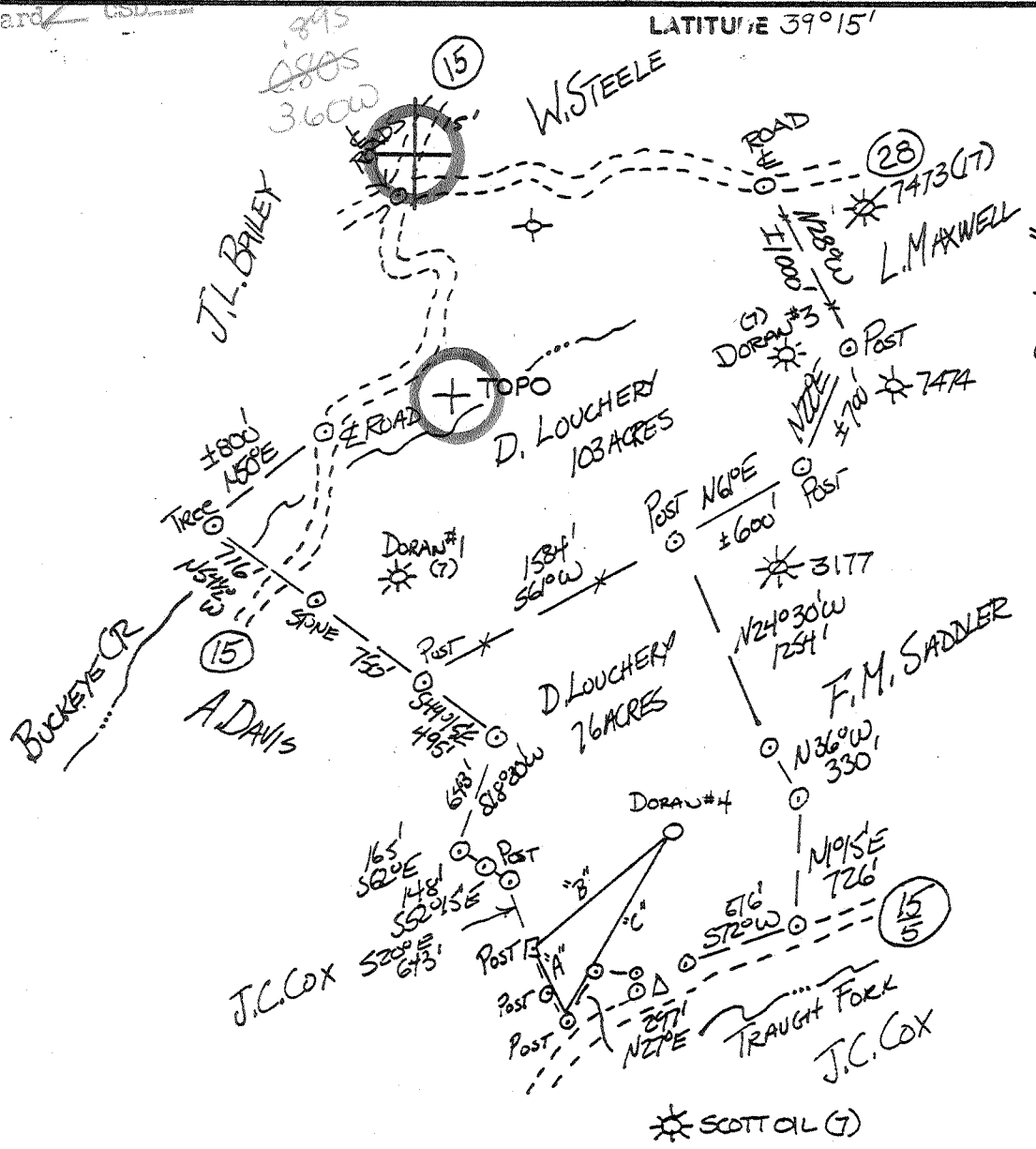


NORTH

LONGITUDE 80°32'30" 80°30'



"A" N20°32'W 436'
 "B" S51°40'W 929.5'
 "C" N30°20'E 1141.0'

FILE NO. 12-25-80
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM ± 1/8 MILE SW
(992)

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) Walter P. Lepout
 R.P.E. 7410 L.L.S. _____

PLACE SEAL HERE

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



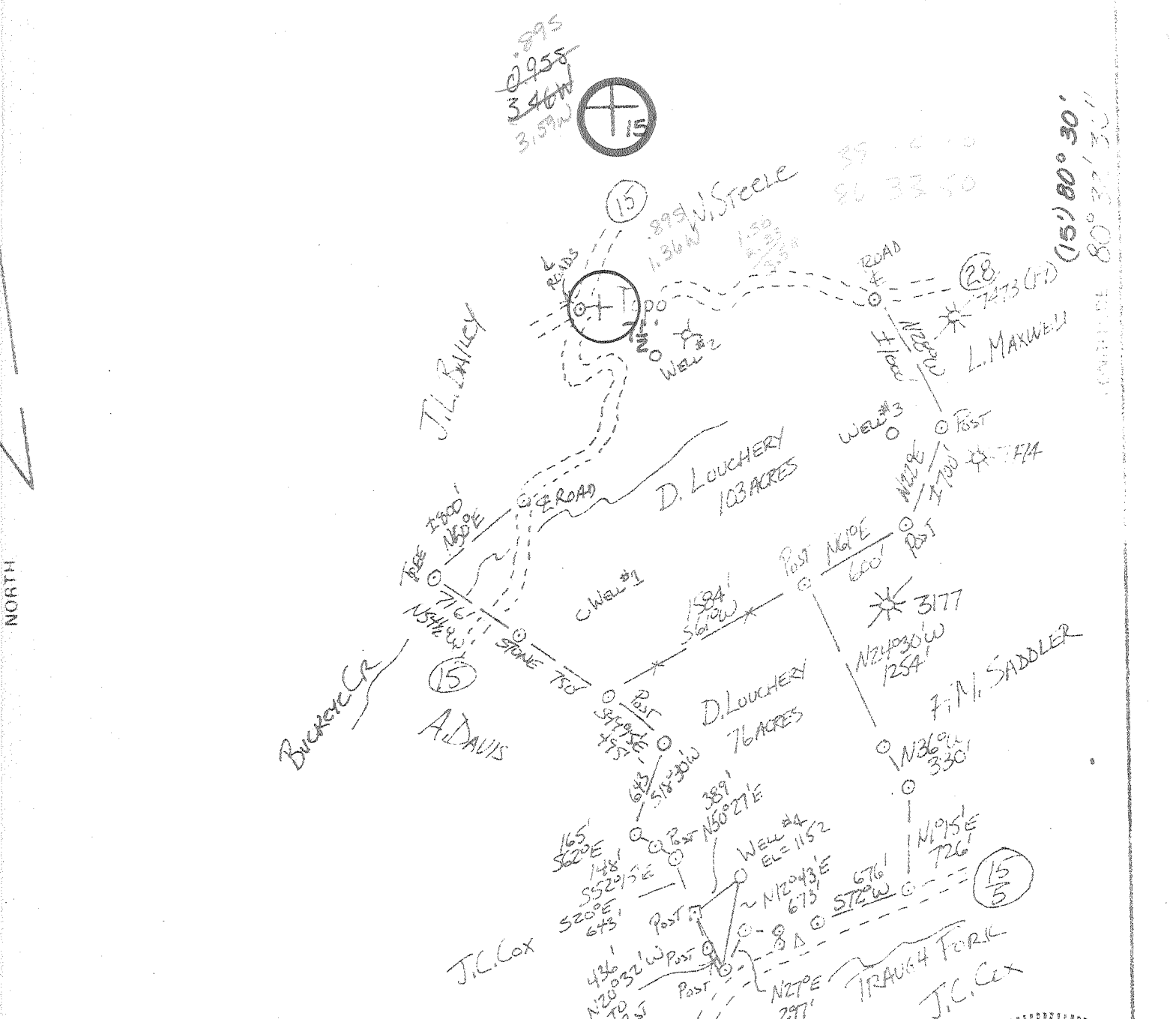
DATE _____, 19____
 OPERATOR'S WELL NO. 4
 API WELL NO. 47-017-2799-R
 STATE COUNTY PERMIT

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 ___
 LOCATION: ELEVATION 1309 WATER SHED TRAUGH FORK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7 1/2 VAR 15' NE
 SURFACE OWNER OLAN CUMBERLEDGE ACREAGE 76
 OIL & GAS ROYALTY OWNER DANIEL LOUCHERY LEASE ACREAGE 172
 LEASE NO. 443

PROPOSED WORK: DRILL X 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 5600
 WELL OPERATOR DORAN & ASSOCIATES INC DESIGNATED AGENT AL SORAN
 ADDRESS 200 ROESSLER ROAD ADDRESS RTE 4 BOX 444
PGH, PA. 15220 BUCKHANON WY 36201



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM ± 1/8 MILE SW (992)

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) Walter P. Rupert
 R.P.E. 7410 L.L.S. _____



INDICATES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 378

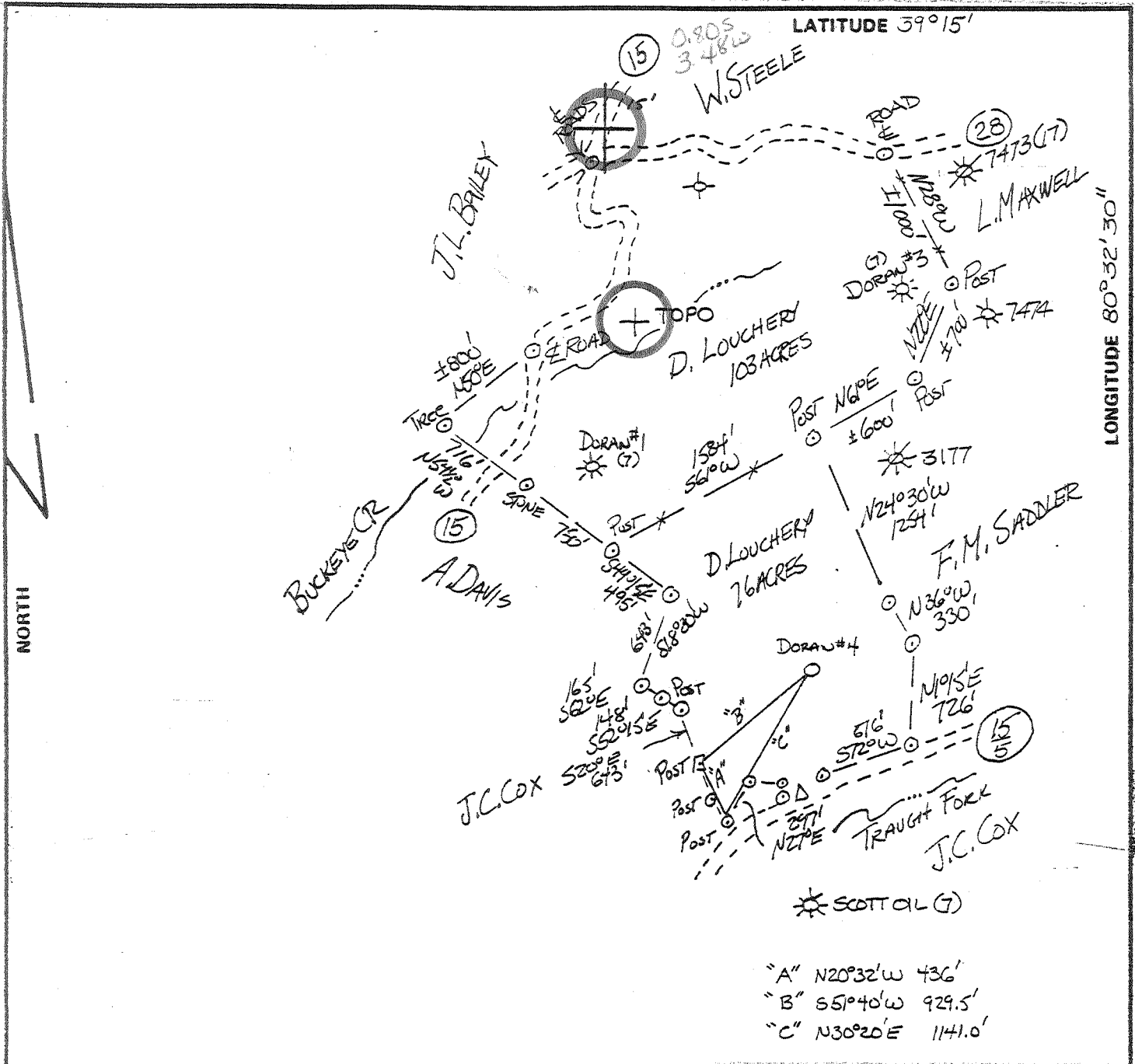
STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

DATE 9-21-1979
 OPERATOR'S WELL NO. 4
 API WELL NO. 47-017-2799
 STATE WEST VIRGINIA COUNTY DODDRIDGE PERMIT 017-2519

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1152 WATER SHED TRAUGH FORK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 1/2 VADIS 15' NE
 SURFACE OWNER S. DAVIS, O. CUMBERLEIGH ACREAGE 76
 OIL & GAS ROYALTY OWNER DANIEL LOUCHERY LEASE ACREAGE 172
 LEASE NO. _____

PROPOSED WORK: DRILL X 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 5600
 OPERATOR DORAN + ASSOCIATES INC DESIGNATED AGENT ALVIN DORAN
 ADDRESS 128 WASHINGTON ROAD RT 4 Box 444
POH, PA 15228 BUCKHANNON, W.Va.



"A" N20°32'W 436'
 "B" S51°40'W 929.5'
 "C" N30°20'E 1141.0'

FILE NO. 12-25-80
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM ± 1/8 MILE SW (992)

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) Walter P. Lepout
 R.P.E. 7410 L.L.S. _____

PLACE SEAL HERE

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



DATE _____, 19____
 OPERATOR'S WELL NO. 4
 API WELL NO. _____
47 - 017 - 2799 - Re
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

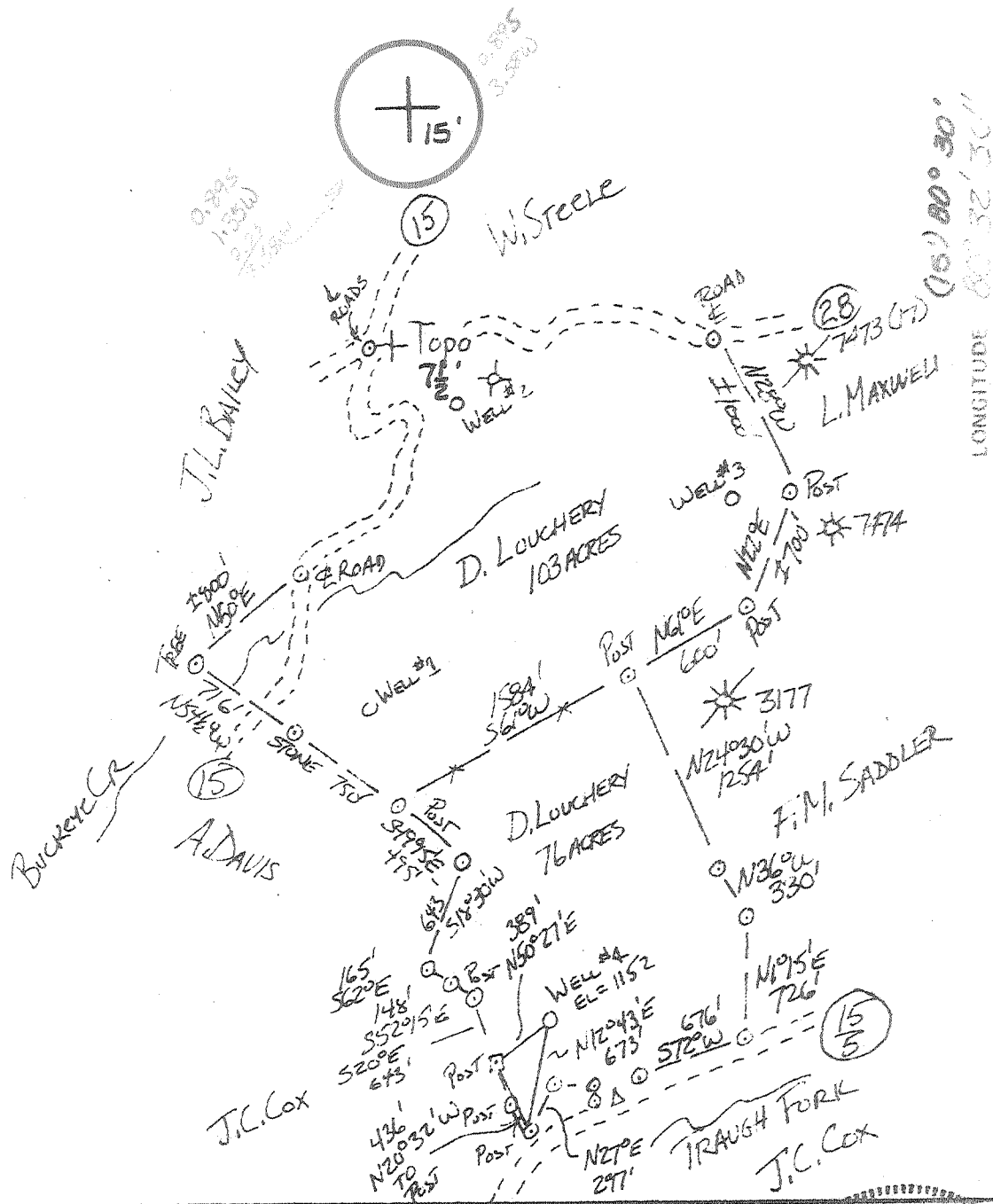
Formerly: 656-2519

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1309 WATER SHED TRAUGH FORK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7 1/2 VD 15 NE
 SURFACE OWNER OLAN CUMBERLEDGE ACREAGE 76
 OIL & GAS ROYALTY OWNER DANIEL LOUCHERY LEASE ACREAGE 172
 LEASE NO. 443

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

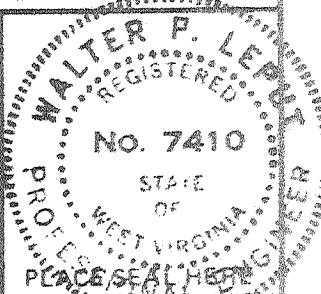
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5600
 WELL OPERATOR DORAN + ASSOCIATES INC DESIGNATED AGENT AL. SORAN
 ADDRESS 200 ROESSLER ROAD ADDRESS RTE 4. BOX 444
PCH, PA. 15220 BUCKHANON WY 36201

NORTH



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM ± 1/8 MILE SW (992)

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) Walter P. Lepert
 R.P.E. 7410 L.L.S. _____



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



DATE 9-21-1979
 OPERATOR'S WELL NO. 4
 API WELL NO. 47-017-2519
 STATE COUNTY PERMIT
now: 017-2799

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 ___
 LOCATION: ELEVATION 1152 WATER SHED TRAUGH FORK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7 1/2, VADIS 15' NE
 SURFACE OWNER S. DAVIS, O. CUMBERLAND ACREAGE 76
 OIL & GAS ROYALTY OWNER DANIEL LOUCHERY LEASE ACREAGE 172
 LEASE NO. _____

PROPOSED WORK: DRILL X 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 5600 NOV 14 1979
 WELL OPERATOR DORAN + ASSOCIATES INC DESIGNATED AGENT ALVIN DORAN
 ADDRESS 728 WASHINGTON ROAD Pgh, PA 15228 ADDRESS Rt 4 Box 444 BUCKHANNON, W. Va.



RECEIVED

JUL 2 1981

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION **Oil and Gas Division**
DEPT. OF MINES

WELL RECORD

Quadrangle Big Isaac 7 1/2

Permit No. 47-017-2799

Rotary X Oil _____
Cable _____ Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company Doran & Associates, Inc.
Address 200 Roessler Rd., Pgh., PA 15220
Farm D. Louchery #4 Acres 172

Location (waters) Trough Fork
Well No. K-U-5 Elev. 1309
District Green brier County Doddridge

The surface of tract is owned in fee by Olan Cumberland

Address Rte. 3, Salem, WV 26426

Mineral rights are owned by Daniel Louchery

Address P.O. Box 1206, Clarksburg,

Drilling Commenced 5-17-81 WV 26201

Drilling Completed 5-22-81

Initial open flow --- cu. ft. --- bbls.

Final production 1007 m. cu. ft. per day --- bbls.

Well open --- hrs. before test 1950 RP.

Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 3-10" 11 3/4			
9 5/8			
8 5/8	1524	1524	265 sks
7			
5 1/2			
4 1/2	5640	5640	215 sks
3			
2			
Liners Used			

Attach copy of cementing record.

STIMULATION RECORD

DATE:	INTERVAL PERFORATED:	FROM	TO	AMT FLUID	AMT SAND
6-12-81		2500	2529	446 BBLs	60,000
		2400	2444	514 BBLs	60,000

Probably from Benson 5182-94

Coal was encountered at 115', 1270' Feet _____ Inches

Fresh water 388' Salt Water _____ Feet

Producing Sand Gantz, 30' Sand, 50' Sand, Fifth Sand, Depth 2882, 3004, 2954, 3210, 3874,

Speechley, Balltown, Bradford, Riley, Benson 4028, 4420, 5038, 5128

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Substructure			0	5		
Sand			5	75		
Shale			75	115		
Coal			115	128		
Sand & Shale			128	388	F.W. @388	
Sand & Shale			388	1270		
Coal			1270	1275		
Sand & Shale			1275	1524		
Shale			1524	1801		
Sand			1801	2100		
Lime			2100	2240		
Sand			2240	2280		
Sand			2280	3027	gas @2320, 2360	
Shale			3027	3425		
Slate			3425	3550		
Sand			3550	3577		
Shale			3577	3600		
Sand & Shale			3600	3650		
Sand			3650	3700		
Sand & Shale			3700	3800		
Sandy Shale			3800	3870		
Sand			3870	3884		
Sandy Shale			3884	4010		
Sand			4010	4056		

JUL 27 1981

(over)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sandy Shale			4056	4150		
Sand			4150	4188		
Shale			4188	4300		
Sand & Shale			4300	4460		
Sand			4460	4480		
Shale			4480	4550		
Sand			4550	4560		
Shale			4560	4650		
Sand			4650	4700		
Sand & Shale			4700	5182		
Sand			5182	5224	Gas @5185'	
Shale			5224	5310		
Sand			5310	5404		
Sandy Shale			5404	5490		
Sand			5490	5580		
Shale & Sand			5580	5690		
Sand			5690	5700		
Sandy Shale			5700	5710		
Shale			5710	5714		
Driller's T.D.				5714		
Gantz			2882	2908		
50' Sand			2954	2985		
30' Sand			3004	3025		
Fourth Sand			3110	3120		
Fifth Sand			3210	3220		
Speechley			3874	3904		
Balltown			4028	4058		
Bradford			4420	4430		
Riley			5038	5064		
Benson			5182	5194		
Logger's T.D.				5796 Alex		

Date June 26 19 81
APPROVED Donald P. Laughlin Owner
By Vice President - Operations
(FRIE)

FORM IV-2 (Obverse)

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

Date: September 26, 1979

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. 4 API Well No. 47 - 017 - 2519 State County Permit

WELL TYPE: Oil / Gas X / (If "Gas", Production X / Underground storage / Deep / Shallow now: 2799)

LOCATION: Elevation: 1152 Watershed: Traugh Fork District: Greenbrier County: Doddridge Quadrangle: Big Isaac 7 1/2

WELL OPERATOR Doran & Associates, Inc. Address 728 Washington Road Pittsburgh, PA 15228

DESIGNATED AGENT Mr. Alvin Sorcan Address Rt. 4, Box 444 Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Daniel Louchery Address P. O. Box 1206 Clarksburg, WV Acreage 172

COAL OPERATOR Virginia Tetrick Address Union National Center West Clarksburg, WV 26301

SURFACE OWNER Olan Cumberledge, Rt. 3 (103A) Address Salem, WV 26426 Sylvis W. & Wanda Mae Davis Box 1222, Clarksburg, WV 26301

COAL OWNER(S) WITH DECLARATION ON RECORD: Name Same as above Address Name Address

FIELD SALE (IF MADE) TO: Name N/A Address

COAL LESSEE WITH DECLARATION ON RECORD: Name N/A Address RECEIVED OCT - 9 1979

OIL & GAS INSPECTOR TO BE NOTIFIED Name Paul Garrett Address 321 Beech Street 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 X / other contract / dated April 17, 1979, XXXXXX to R & P Associates from Daniel L. Louchery

[If said deed, lease, or other contract has been recorded:] Recorded on September 10, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Book 110 at page 572. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper / Redrill / Fracture or stimulate / 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) 348-3692

Doran & Assoc., Inc. Well Operator

BLANKET BOND

By Donald R. Laughlin Its Vice President - Operations

[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) _____

Address _____

GEOLOGICAL TARGET FORMATION, ALEXANDER

Estimated depth of completed well, 5600' feet Rotary X / Cable tools _____ /

Approximate water strata depths: Fresh, 45, 235 feet; salt, _____ feet.

Approximate coal seam depths: _____ 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	11 3/4			X			30'	To Surface	Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8			X			1600'	To Surface	
Production	4 1/2			X			5600'	350 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 18, 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 drilling 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 is noted as such on the permit. **THIS PERMIT MUST BE POSTED AT THE WELL SITE** 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 6-24-80

[Signature]
Deputy Director - Oil & Gas Division

The following information must be furnished by the coal owner 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 _____

Louchery #4 K-U-5

OIL AND GAS WELL PERMIT APPLICATION

Date: 3-10-81

WELL TYPE: Oil / Gas x /
(If "Gas", Production / Underground storage / Deep / Shallow /
API NO. 47 - 017 - 2799-RFN
State County Permit

LOCATION: Elevation: 1309 Watershed: Traugh Fork
District: Greenbrier County: Doddridge Quadrangle: Big Issac 7 1/2

WELL OPERATOR Doran & Associates, Inc.
Address 200 Roessler Road
Pittsburgh, PA

COAL OPERATOR Virginia Tetrick
Address Union National Center
Clarksburg, WV 26301

OIL & GAS ROYALTY OWNER Daniel Louchery
Address P. O. Box 1206
Clarksburg, WV 26201

COAL OWNER(S) WITH DECLARATION ON RECORD:

Name same as above

Address

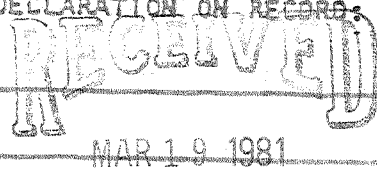
Acreage 172

COAL LESSEE WITH DECLARATION ON RECORD:

Name

Address

SURFACE OWNER Olan Cumberledge
Address Rte. 3,
Salem, WV 26426



OIL & GAS DIVISION

DEPT. OF MINES

BEFORE CONSTRUCTION BEGINS NOTIFY
DISTRICT OIL AND GAS INSPECTOR:

Name Steve Casey
Rte 2, Box 232-D
Street
Jane Lew, WV 26378
City Zip

PH: (304) 884-7470

Well NO. 4 Acreage 172

FIELD SALE (IF MADE) TO:

Name N/A
Address

DESIGNATED AGENT Al Sorcan
Address Rte. 4, Box 444 Buckhannon, WV

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 April 17, 1979, to the undersigned ~~well operator~~ R. & P. Associates from Daniel L. Louchery (If said deed, lease or other contract has been recorded:)

Recorded on Sept 9, 1981, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Book 110, at page 572. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill Deeper / Redrill / Fracture or stimulate /
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 522-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by 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 lessees 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:
OFFICE OF OIL AND GAS,
1615 Washington Street, East

BLANKET BOND

Daniel R. Louchery
Well Operator

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 697
Indiana, PA 15701

GEOLOGICAL TARGET FORMATION, ALEXANDER

Estimated depth of completed well, 5700 feet Rotary Cable tools
Approximate water strata depths: Fresh, 80 feet; salt, 1450 feet.
Approximate coal seam depths: 1445 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		
Conductor	13/4			X		✓	To SURFACE	Kinds
Wash water								
Coal								Sizes
Intermediate	8 5/8		20	X			1550 To SURFACE	
Production	4 1/2		10 1/2	X			5700 450 Sks.	Depths set
Tubing								Perforations:
liners								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 is noted as such on the Form IV-2 filed in connection therewith.

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 renewed. This permit shall expire if operations have not commenced by 11-23-81.

[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.

By _____
Its _____



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE June 5, 1980

Surface Owner Olan Cumberledge
Address Rt. 3, Salem, WV 26426

Company Doran & Associates, Inc.
Address 728 Washington Rd., Pgh., PA 15228

Mineral Owner Daniel Louchery
Address P. O. Box 1206, Clarksburg, WV 26201

Farm D. Louchery #4 Acres 172

Coal Owner Virginia Tetrick
Address Union National Center West, Clarksburg, WV 26301

Location (waters) Traugh Fork

Well No. 4 Elevation 1152

Coal Operator SAME AS ABOVE
Address _____

District Greenbrier County Doddridge

Quadrangle Big Isaac 7 1/2

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 3-25-81.

INSPECTOR
TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech Street, Clarksburg, WV 26301

PHONE 304-622-3871

Thomas E. Huggins
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated April 17 1979 by Daniel L. Louchery made to R & P Associates and recorded on the 10th day of Sept. 1979 in Doddridge County, Book 110 Page 572

XXX NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address this day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

Very truly yours,
(Sign Name) Donald R. Laughlin
Well Operator
Donald R. Laughlin
728 Washington Road
Street
Pittsburgh,
City or Town
PA 15228
State

OIL & GAS DIVISION
DEPT. OF MINES

(FORMERLY - ⁰¹⁷DOD-2519)
DOD-2799 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _____

BLANKET BOND

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO xxxxxx DRILL DEEPEN FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME S. W. Jack Drilling Co. NAME Alvin Sorcan
 ADDRESS P. O. Box 697, Indiana, PA 15701 ADDRESS Rt. 4, Box 444, Buckhannon, WV
 TELEPHONE 349-6800 TELEPHONE 472-0007 26201
 ESTIMATED DEPTH OF COMPLETED WELL: 5600 ROTARY xxx CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: ALEXANDER
 TYPE OF WELL: OIL GAS xxx COMB. STORAGE DISPOSAL
 RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10 <u>11 3/4</u>	<u>30</u>	<u>30</u>	<u>To Surface</u>
9 - 5/8			
8 - 5/8	<u>1600</u>	<u>1600</u>	<u>To Surface</u>
7			
5 1/2			
4 1/2	<u>5600</u>	<u>5600</u>	<u>550 Sks</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 45, 235 FEET SALT WATER FEET
 APPROXIMATE COAL DEPTHS 240
 IS COAL BEING MINED IN THE AREA? No BY WHOM?

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

 For Coal Company

 Official Title