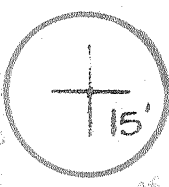


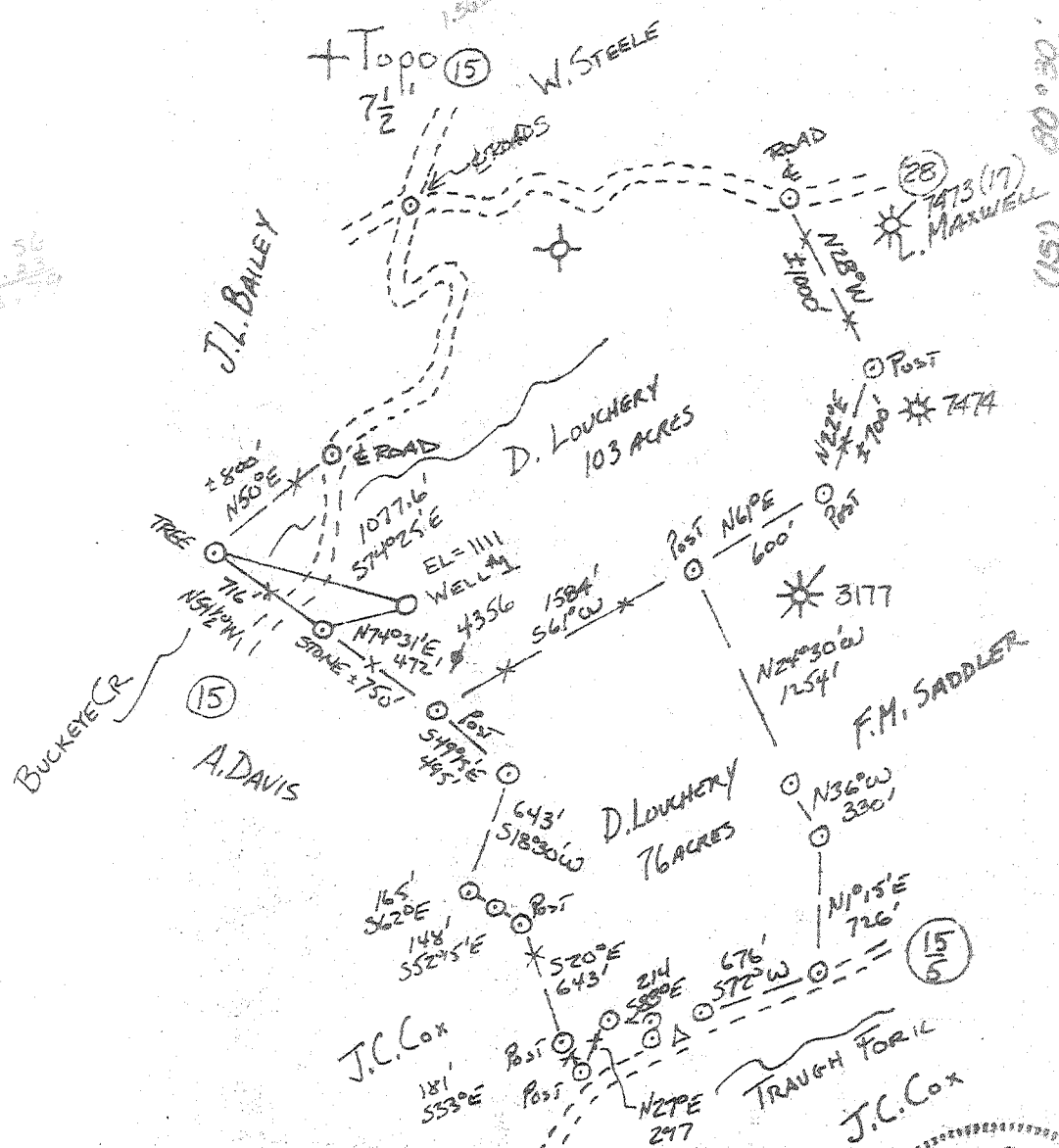
0.595
D. 425
3.41 W
3.79 W



39 15 25
80 39 00

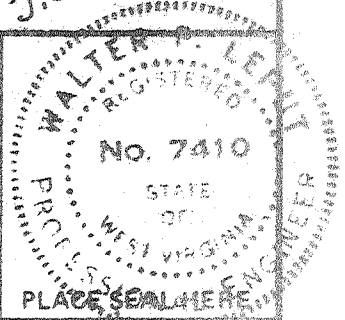
LONGITUDE 80°32'30"

NORTH



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM ± 1/4 MILE NORTH (1276)

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 9-19, 1979
 OPERATOR'S WELL NO. 1
 API WELL NO. 47-017-2516
 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 ___ STORAGE X DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1111 WATER SHED BUCKEYE CREEK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7 1/2, DAVIS 15' NE
 SURFACE OWNER C. CUMBERLEDGE ACREAGE 103
 OIL & GAS ROYALTY OWNER DANIEL LOUCHERY LEASE ACREAGE 172
 LEASE NO. _____
 PROPOSED WORK: DRILL ___ CONVERT X 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 Benson - ALEXANDER ESTIMATED DEPTH 5550'
 WELL OPERATOR DORANT ASSOCIATES, INC. DESIGNATED AGENT ALVIN SORCAN
 ADDRESS 728 WASHINGTON ROAD, P.O. BOX 15228 ADDRESS RT 4 BOX 444, BUCKHANNON, W. VA.
 NOV 14 1979

6-6 STRAIGHT FR - BLUESTONE CR - 183 (146)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD 22

JAN 28 1980

OIL & GAS DIVISION
DEPT. OF MINES
Rotary Oil _____
Cable _____ Gas
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Big Isaac 7½
Permit No. 47-017-2516

Company Doran & Associates, Inc.
Address 728 Washington Rd., Pittsburgh, PA 15228
Farm D. Louchery #1 Acres 103
Location (waters) Buckeye Creek
Well No. K-L-266 Elev. 1111
District Greenbrier County Doddridge
The surface of tract is owned in fee by Olan Cumberledge
Address Rte. 3, Salem, WV 26426
Mineral rights are owned by Daniel Louchery
Box 1206 Address Clarksburg, WV 26301
Drilling Commenced 11-24-79
Drilling Completed 12-01-79
Initial open flow 75 Mcu. ft. -- bbls.
Final production 1661 Mcu. ft. per day -- bbls.
Well open 12 hrs. before test 1900 RP.
Well treatment details:

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	1427'	1427'	250 Sks.
7			
5 1/2			
4 1/2	5331'	5331'	105 Sks.
3			
2			
Liners Used			

Attach copy of cementing record.
Stimulation Record:

Date:	Interval Perforated:	From:	To:	Amt. Fluid	Amt. Sand
12-12-79		5200	5348	594 bbls.	42,000 #

Coal was encountered at 1240' Feet _____ Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Alexander Depth 5204

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Substructure			0	5		
Shale			5	20		
Sand & Shale			20	55		
Sand			55	80		
Sand & Shale			80	115		
Sand			115	145		
Sand & Shale			145	169		
Shale			169	199		
Sand & Shale			199	240		
Red Rock			240	250		
Shale			250	260		
Red Rock & Shale			260	270		
Shale			270	300		
Red Rock & Shale			300	351		
Sand & Shale			351	375		
Red Rock & Shale			375	540		
Sand			540	740		
Sand & Shale			740	755		
Shale			755	800		
Red Rock & Shale			800	940		
Shale			940	1195		
Sand & Shale			1195	1240		
Coal			1240	1245		

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			1245	1290		
Sand			1290	1315		
Shale			1315	1620		
Sand			1620	1650		
Sand & Shale			1650	1820		
Sand			1820	1840		
Shale			1840	1920		
Red Rock & Shale			1920	1945		
Shale			1945	1985		
Lime			1985	2020		
Big Lime			2020	2195		
Lime & Shale			2195	2218		
Shale & Sand			2218	2590		
Shale			2590	2690		
Sand & Shale			2690	2890		
Shale			2890	2990		
Sand & Shale			2990	3120		
Shale & Sand			3120	3199		
Shale			3199	3261		
Sand & Shale			3261	3448		
Shale			3448	3538		
Sand			3538	3640		
Sand & Shale			3640	3688		
Sand			3688	3790		
Sand & Shale			3790	3980		
Shale			3980	4420		
Sand & Shale			4420	4985		
Sand			4985	5000	Gas @ 4992'	
Sand & Shale			5000	5295		
Sand <i>A&S</i>			5295	5395		
Sand & Shale			5395	5510		
Driller's T.D.				5510		
Fifth Sand			2816	2834		
Riley			4855	4885		
Benson			4992	5028		
Alexander			5204	5384		
Logger's T.D.				5517		

Date Jan 23 19 80

APPROVED Donald R. Laughlin Owner

By Vice President - Operations

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. 1 API Well No. 47 - 017 - 2516 State County Permit

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

LOCATION: Elevation: 1111 Watershed: Buckeye Creek 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

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

Acreage 172

COAL OWNER(S) WITH DECLARATION ON RECORD:

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

Name Virginia Tetrick Address Union National Center West Clarksburg, WV 26301

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

Name Address

Address

COAL LESSEE WITH DECLARATION ON RECORD:

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

Name N/A Address OCT - 9 1979

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, to R & P Associates from Daniel L. Louchery

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

Recorded on September 10 19 79, 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 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 1111 WASHINGTON STREET EAST CHARLESTON, WV 25311

TELEPHONE: (304) 342-2392

BLANKET BOND

Doran & Associates, Inc. Well Operator

By Donald R. Laughlin

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, 5550 feet Rotary Cable tools

Approximate water strata depths: Fresh, 30+170 feet; salt, _____ feet.

Approximate coal seam depths: 255, 535, +840 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			115'	To Surface	
Production	4 1/2			X			5550	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 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 in 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 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 6-24-80

Robert L. ...

Deputy Director - Oil & Gas Division

The following order 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 _____