

0435
3.36W
3.41W

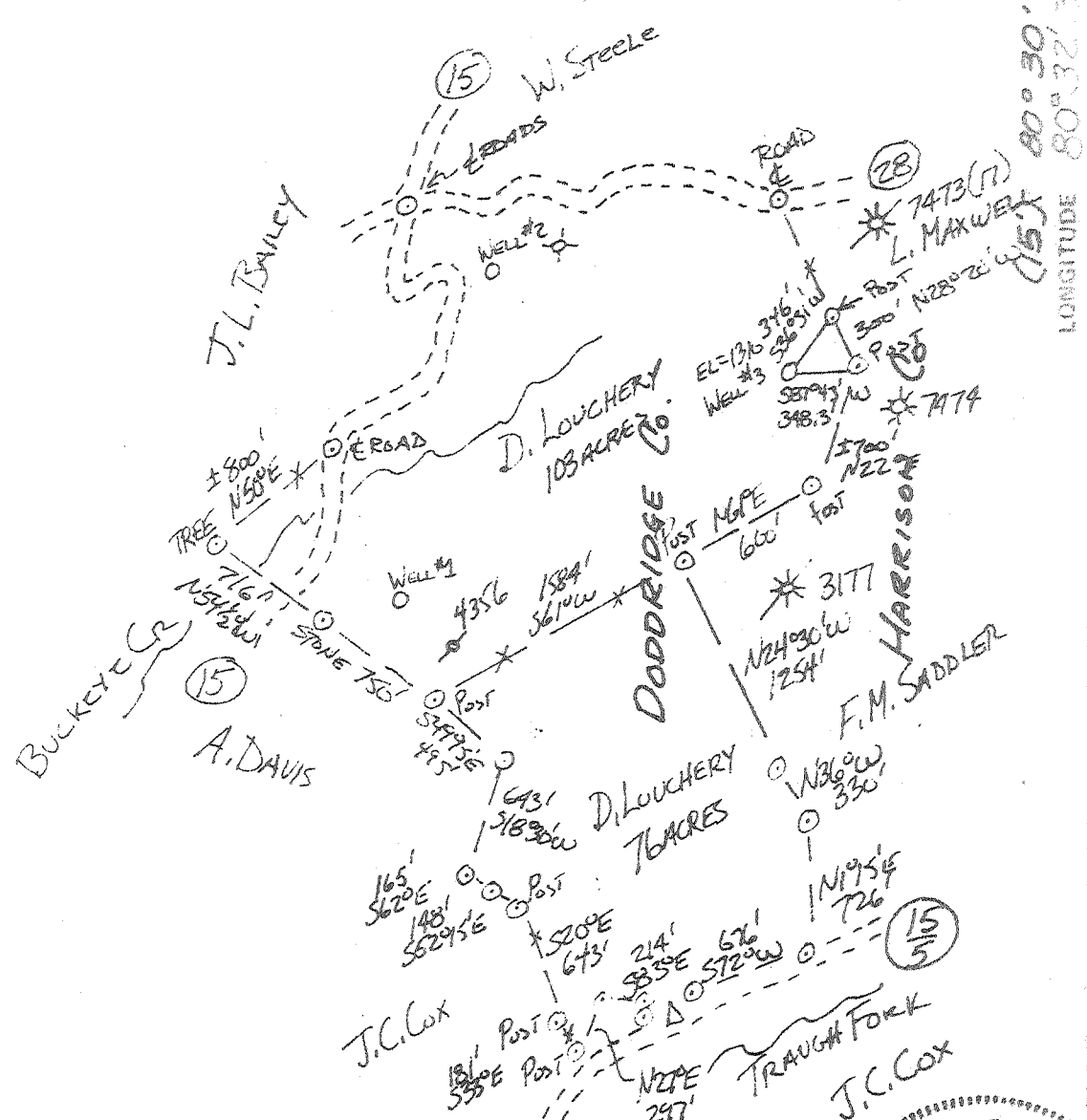


ATITUDE 39° 15'

0435
1.80
29 12 35
80 33 43

+ Topo 7 1/2'

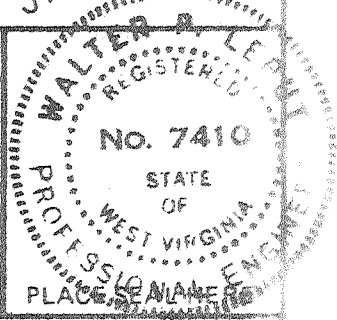
NORTH



LONGITUDE 80° 32' 30"

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION BM ± 1/8 MILE WEST (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 9-21, 19 79
OPERATOR'S WELL NO. 3
API WELL NO. 47-017-2518
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 1310 WATER SHED Buckeye Creek
DISTRICT GREENBRIER COUNTY DODDRIDGE
QUADRANGLE BIG ISAAC 7 1/2, VADIS 15' NE
SURFACE OWNER O. Comberledge ACREAGE 103
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 5175'
WELL OPERATOR DORANT ASSOCIATES INC DESIGNATED AGENT ALVIN SORCAN NOV 14 1979
ADDRESS 728 WASHINGTON ROAD ADDRESS RT 4 Box 444
PO-4, PA 15228 BUCKHANNON, W. VA.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Quadrangle Big Isaac 7 1/2

Permit No. 47-017-2518

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

Company Doran & Associates
Address 728 Washington Rd., Pgh., PA 15228
Farm D. Louchery #3 Acres 172
Location (waters) Buckeye Creek
Well No. K-L-268 Elev. 1310
District Greenbrier County Doddridge
The surface of tract is owned in fee by Olan
Cumberledge Rt. 3, Salem, WV 26426 Sylvia
Address W. & Wanda MacDavis Box 1222 Clarksburg WV 26301
Mineral rights are owned by Daniel Louchery
Address Box 1206 Clarksburg, WV 26301

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13 3/4	31'	31'	
9 5/8			
8 5/8	1778'	1778'	430 SKS
7			
5 1/2			
4 1/2	5623	5623	370 SKS
3			
2			
Liners Used			

Drilling Commenced 6-22-80
Drilling Completed 6-28-80
Initial open flow 119 M cu. ft. _____ bbls.
Final production 712 M cu. ft. per day _____ bbls.
Well open 72 hrs. before test 1850# RP.

Well treatment details:

Attach copy of cementing record.

STIMULATION RECORD

DATE:	INTERVAL PERFORATED:	FROM	TO	AMT. FLUID	AMT. SAND
<u>7-21-80</u>		<u>5541</u>	<u>5552</u>	<u>510 BBLs</u>	<u>55,000#</u>
		<u>5076</u>	<u>5214</u>	<u>475 BBLs</u>	<u>55,000#</u>
		<u>3806</u>	<u>3904</u>	<u>400 BBLs</u>	<u>40,000#</u>

Coal was encountered at 372, 623' 1562' Feet _____ Inches
Fresh water 55' Feet _____ Salt Water _____ Feet _____
Producing Sand Alexander, Benson, Balltown Depth 5500, 5180, 3754

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Substructure			0	31		
Sandy Shale			31	40		
Sand			40	100		
Sandy Shale			100	372		FW @ 55'
Coal			372	375		
Sandy Shale & Red Rock			375	623		
Coal			623	625		
Sandy Shale			625	715		
Sand			715	825		
Sandy Shale			825	910		
Sand			910	960		
Sandy Shale & Red Rock			960	1170		
Sand			1170	1275		
Sandy Shale			1275	1500		
Sand			1500	1562		
Coal			1562	1565		
Sand			1565	1580		
Sandy Shale			1580	1615		
Sand			1615	1705		
Sandy Shale			1705	2205		
Light Lime			- 2205	2215		
Sandy Shale			2215	2260		
Big Lime			- 2260	2335		
Sand			2335	2450		

RECEIVED
AUG 1 1979
OIL & GAS DIVISION
D. C. MINES

(over)

Indicates Electric Log top in the remarks section.

AUG 26 1980

Location	Color	Hard or Soft	Top Feet	Bottom Feet	Oil Gas or Water	Remarks
Sandy Shale			2450	2895		
Sand			2895	2980		
Sandy Shale			2980	3355	Gas @ 3000', 3132'	
Sand			3355	3440		
Sandy Shale			3440	3530		
Sand			3530	3595		
Sandy Shale			3595	3805		
Sand			3805	3820		
Sandy Shale			3820	3900	Gas @ 3900'	
Sand			3900	3910		
Sandy Shale			3910	4360		
Sand			4360	4390		
Sandy Shale			4390	5195	Gas @ 5190'	
Benson			5195	5215		
Sandy Shale			5215	5475		
Sand			5475	5485		
Sandy Shale			5485	5535		
Sand ALEX			5535	5540	Gas @ 5500'	
Sandy Shale			5540	5703		
Driller's T.D.				5703		
Big Lime			2262	2300		
Big Injun			2306	2410		
Speechley			3612	3660		
Balltown			3754	3812		
Bradford			4320	4390		
Riley			5020	5040		
Benson			5180	5240		
Alexander			5500	5550		
Logger's T.D.				5703		

28

Date Aug 7 1920

APPROVED Donald P. Laughlin (owner)

By Vice President Operations

(7.16)

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. 3 API Well No. 47 - 017 - 2518 State County Permit

WELL TYPE: Oil / Gas X / (If "Gas", Production X / Underground storage / Deep / Shallow /) LOCATION: Elevation: 1310 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 Acreage 172

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

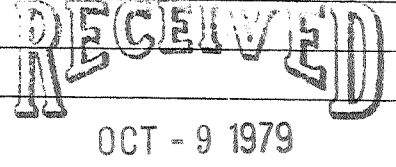
SURFACE OWNER Olan Cumberledge, Rt. 3 (103A) Address Salem, WV 26426 Sylvis W. & Wanda Mae Davis Box 1222, Clarksburg, WV 26301

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

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



The undersigned well operator is entitled to operate for oil or gas purposes at the 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, 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 1001 WASHINGTON STREET EAST CHARLESTON, WV 25311 TELEPHONE: (304) 348-2092

BLANKET BOND

Doran & Associates, Inc. Well Operator

By Donald R. Laughlin

[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, 5775' feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 30,155 feet; salt, _____ feet.

Approximate coal seam depths: 255, 710, 935 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			1750'	To Surface	
Production	4 1/2			x			5775'	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 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 not the primary purpose of the permit. 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 6-24-80.

Robert H. [Signature]
Deputy Director - Oil & Gas Division

The following conditions must be complied with 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 _____