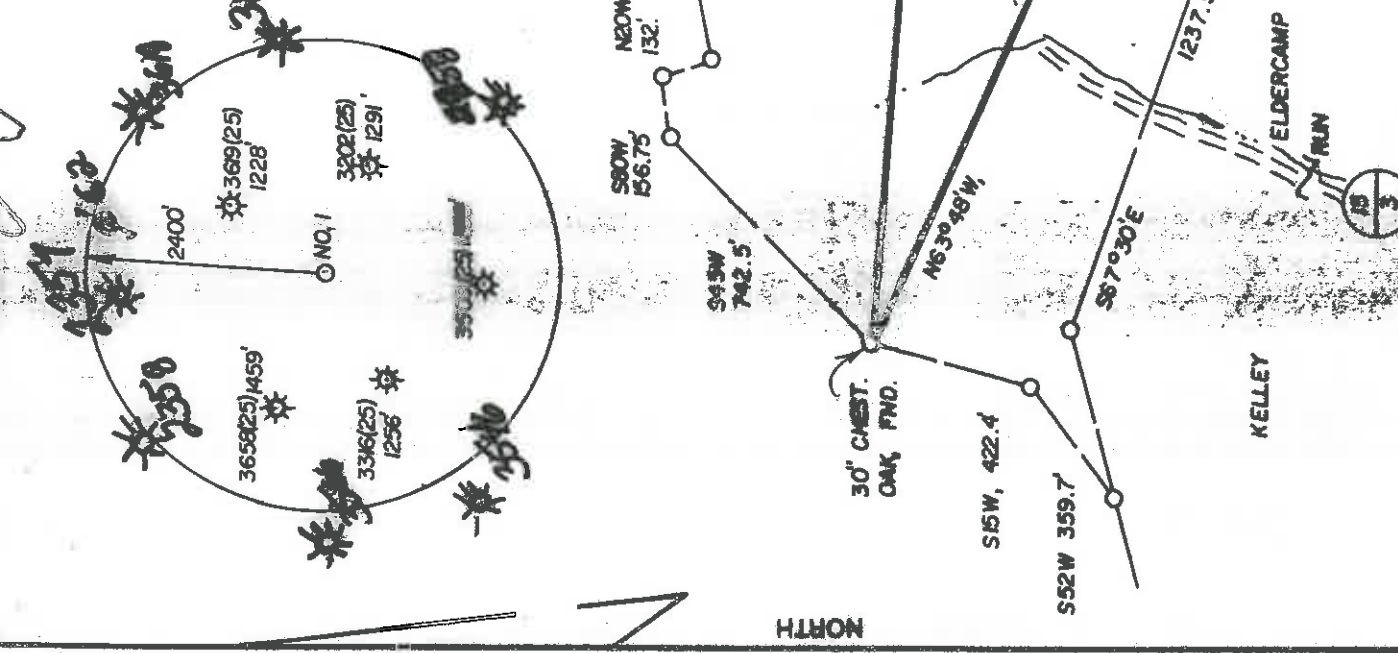


Jane Lew
04/19/96



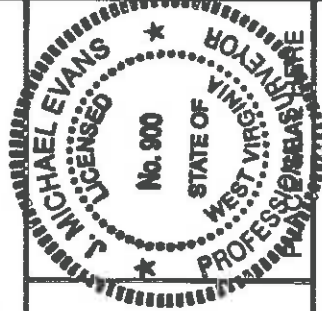
REFERENCES:

- N47E, 137' TO 9" RED MAPLE
- S69E 91' TO 6" HICKORY

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB
 853' NE at 1444'

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 ENERGY
 (SIGNED) *J. Michael Evans*
 R.P.E. I.L.S. 900



STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS

DATE April 29, 19 96
 OPERATOR'S WELL NO. Pennzoil 1
 API WELL NO. 47-017-04268

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL _____ STATE COUNTY PERMIT
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1185' WATERSHED Eldercamp Run
 DISTRICT Greenbrier COUNTY Doddridge
 QUADRANGLE Big Isaac 7.5'
 SURFACE OWNER Robert W. Kelley ACREAGE 117.53
 OIL & GAS ROYALTY OWNER Pennzoil Company LEASE ACREAGE 50.
 LEASE NO. 15001 L.

PROPOSED WORK: DRILL CONVERT CLEAN OUT AND REPLUG
 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 Dominion Appalachian DESIGNATED AGENT John Haskins
 ADDRESS Development, Inc. ADDRESS P. O. Drawer R Jane Lew, WV 26378-0080
 P. O. Drawer R 5735

RECEIVED

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

AUG 12 1996

WV Division of Environmental Protection
Well Operator's Report of Well Work
Operator Well No.: PENNZOIL #1

LOCATION: Elevation: 1,185.00 Quadrangle: BIG ISAAC

District: GREENBRIER County: DODDRIDGE
Latitude: 3750 Feet South of 39 Deg. 45Min. 0 Sec.
Longitude 2200 Feet West of 80 Deg. 35 Min. 0 Sec.

Company: DOMINION APPALACHIAN DEVE
P. O. DRAWER R
JANE LEW, WV 26378-0000

Agent: JOHN T. HASKINS

Inspector: MIKE UNDERWOOD
Permit Issued: 06/12/96
Well work Commenced: 07/16/96
Well work Completed: 07/22/96
Verbal Plugging
Permission granted on: N/A
Rotary X Cable Rig
Total Depth (feet) 5648'
Fresh water depths (ft) 100', 180'

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? N
Coal Depths (ft): _____

OPEN FLOW DATA

Producing formation BENSON/RILEY Pay zone depth (ft) 4997-5130
Gas: Initial open flow 5 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 286 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 12 Hours
Static rock Pressure 1420 psig (surface pressure) after 36 Hours
Second producing formation ALEXANDER Pay zone depth (ft) 5420-5497
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 pressure) after * Hours

* COMMINGLED

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Jerry J. Cavallo

For: DOMINION APPALACHIAN DEVELOPMENT, INC.

By: LARRY J. CAVALLO: SENIOR GEOLOGIST
Date: 8/8/96

AUG 16 1996

ZONES	PERFS	HOLE#	BBL	BP	ISIP
ALEXANDER	5420-5497	17	579	2850	1870
BENSON/RILEY	4997-5130	14	611	2000	1950

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
3 to GL			0	10	1/4" Water 100'
TALE		MEDIUM	10	20	1/4" H ₂ O 180'
IND		MEDIUM	20	30	
IND & SHALE		HARD	30	50	
IND		MEDIUM	50	100	
IND		MEDIUM	100	150	
IND		MEDIUM	150	350	
IND		MEDIUM	350	354	
IND		MEDIUM	354	568	
IND		MEDIUM	568	651	
IND		HARD	651	670	
IND & SHALE		HARD	670	704	
IND & SHALE		MEDIUM	704	708	
IND & SHALE		SOFT	708	758	
IND & SHALE		HARD	758	788	
IND & SHALE		MEDIUM	788	831	
IND & SHALE		HARD	831	906	
IND & SHALE		HARD	906	913	
IND & SHALE		MEDIUM	913	1007	
IND		SOFT	1007	1038	
IND		HARD	1038	1069	
IND & SHALE		MEDIUM	1069	1850	
IND & SHALE		MEDIUM	1850	2007	
IND		MEDIUM	2007	2033	
IND & SHALE		MEDIUM	2033	2127	
IND		HARD	2127	2155	
IND		MEDIUM	2155	2167	
IND		HARD	2167	2234	
IND		HARD	2234	2323	
IND & SHALE		MEDIUM	2323	2820	
IND & SHALE		HARD	2820	2949	
IND & SHALE		MEDIUM	2949	4973	
IND & SHALE		MEDIUM	4973	4993	
IND & SHALE		MEDIUM	4993	5110	
IND & SHALE		HARD	5110	5125	
IND SHALE		MEDIUM	5125	5400	
IND SHALE		MEDIUM	5400	5420	
IND SHALE		MEDIUM	5420	5450	
IND		MEDIUM	5450	5500	
IND & SHALE		MEDIUM	5500	5648	
		TD	5648	5648	

GAS ODDOR @ 2208'

GAS CK @ 2253' NO SHOW
 GAS CK @ 2971' 2/10- $\frac{1}{2}$ "w/w

3923' NO SHOW

Gas CK@TD 10/10 - $\frac{1}{4}$ " w/w
 GAS CK @Collars 6/10 $\frac{1}{2}$ "w/w

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
 WELL WORK PERMIT APPLICATION

1) Well ~~Operator's~~ ^{Permitting} ~~Oil & Gas~~ ⁶⁰³⁵ DOMINION APPALACHIAN DEVELOPMENT, INC. 4785° (4) 252

2) Operator's Well Number: PENNZOIL #1 (11393) 3) Elevation: 1185'

Well type: (a) Oil / or Gas X /
 (b) If Gas: Production / Undergound Storage /
 Deep / Shallow X /
 Issued 06/12/96
 Expires 06/12/98

22149

Proposed Target Formation(s): ALEXANDER

Proposed Total Depth: 5650' feet

Approximate fresh water strata depths: 80, 130, 200, 350, 440

8) Approximate salt water depths: N/A

9) Approximate coal seam depths: 350, 850

10) Does land contain coal seams tributary to active mine? Yes / No X /

11) Proposed Well Work: DRILL AND STIMULATE NEW WELL.

12)

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE	INTERVALS	CEMENT
Conductor	11 3/4		27	30	0	PULL
Fresh Water						
Coal						
Intermediate	8 5/8		20	950	950	38 CSR 18-11.2.2
Production	4 1/2	M-65	9.5	5600	5600	38-CSR 18-11.1
Tubing						
Liners						

PACKERS : Kind
 Sizes
 Depths set

For Office of Oil and Gas Use Only
 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 Bond Blanket Agent
 (Type)

RECEIVED
WV Division of
Environmental Protection
JUN 11 1996

1) Date: MAY 30, 1996
2) Operator's well number: PENNZOIL #1 (11393)
3) API Well No: 47-921 017 4268
State _____ County _____ Permit _____

Office of ~~West~~ **Permitting** VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served: 5) (a) Coal Operator: _____ (b) Coal Owner(s) with Declaration: _____ (c) Coal Lessee with Declaration: _____

(a) Name ROBERT W. KELLEY Name N/A
Address RT 3 Address _____

(b) Name SALEM, WV 26426 Name NO DECLARATION
Address _____ Address _____

(c) Name _____ Name _____
Address _____ Address _____

6) Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration
Address RT 2 BOX 135 Name N/A
SALEM, WV 26426-0135 Address _____
Telephone (304)-782-1043

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas **OR**

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ the above named parties, by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator DOMINION APPALACHIAN DEVELOPMENT, INC.

By: [Signature] JOHN HASKINS

Its: [Signature] SENIOR VICE-PRESIDENT

Address PO DRAWER R

JANE LEW, WV 26378

Telephone 304-884-7881

1996 COMMISSIONER FOR WEST VIRGINIA

[Signature] Notary Public

Subscribed and sworn before me this 10th day of June, 1996
My commission expires 10-14-2003