

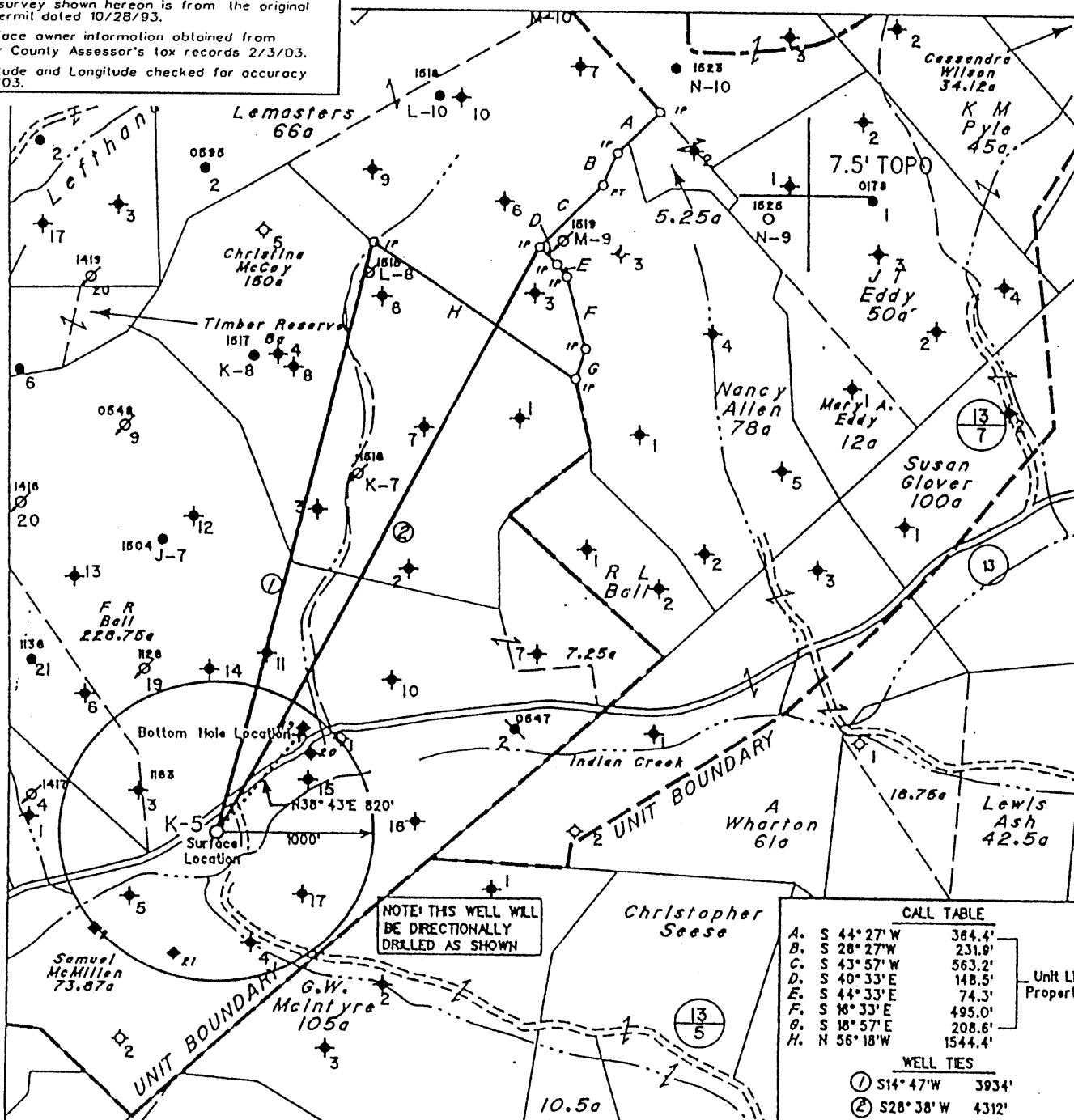
Long. = 80° 40' 54.2"

4,250'

LATITUDE 39° 27' 30"

NOTES ON PLAT

- 1 - The survey shown hereon is from the original drilling permit dated 10/28/93.
- 2 - Surface owner information obtained from the Tyler County Assessor's tax records 2/3/03.
- 3 - Latitude and Longitude checked for accuracy on 1/23/03.



NOTE THIS WELL WILL BE DIRECTIONALLY DRILLED AS SHOWN

CALL TABLE	
A.	S 44° 27' W 364.4'
B.	S 28° 27' W 231.9'
C.	S 43° 57' W 563.2'
D.	S 40° 33' E 148.5'
E.	S 44° 33' E 74.3'
F.	S 16° 33' E 495.0'
G.	S 18° 57' E 208.6'
H.	N 56° 18' W 1544.4'

WELL TIES	
①	S14° 47' W 3934'
②	S28° 38' W 4312'

LOCATION REFERENCES

N 80° 38' E 129' DBL. BLACK CHERRY
 N 68° 19' W 108' 14" DBL. POPULAR

Note: All Known Water Supply Sources Located Within 1000' Of Proposed Well Are Shown

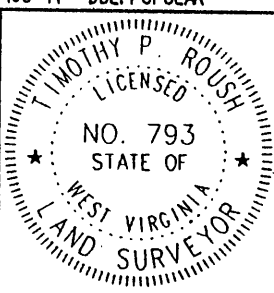
◆ Denotes Water Supply Source.

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

FILE NO. _____
 MAP NO. N47 N 1 S E W 4
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION WVDEP Records

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) [Signature]
 TIMOTHY P. ROUSH PS 793



WEST VIRGINIA
 Division of Environmental Protection
 Office of Oil and Gas
 1356 Hansford St.
 Charleston, West Virginia 25301

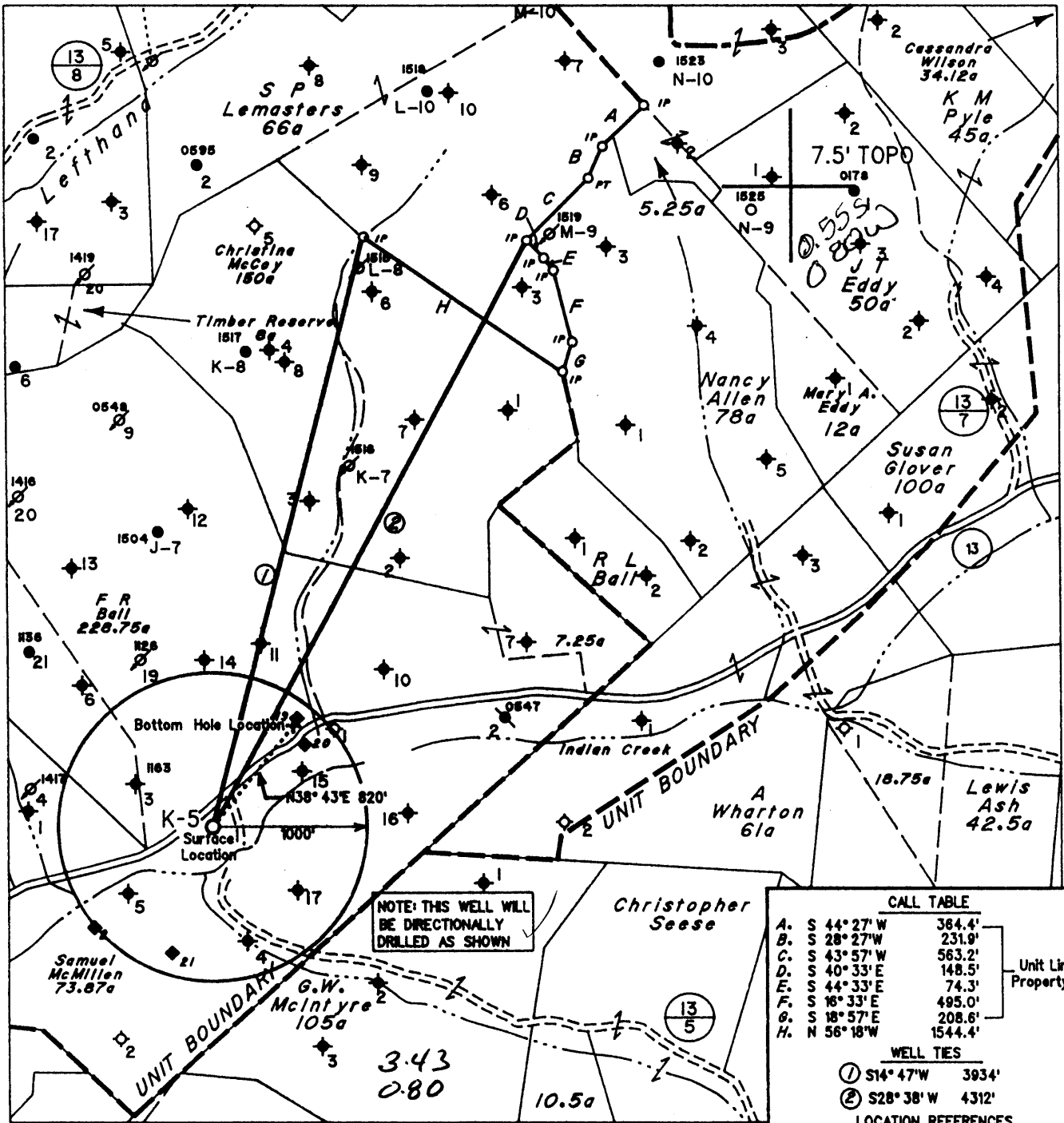


DATE February 3, 2003
 FARM F.R. Ball NO. K-5
 API WELL NO. 47-095-1604F

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION X WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 830' WATERSHED Indian Creek
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Centerpoint 7.5'
 SURFACE OWNER John W.L. Jones ACREAGE 107.6 Ac.
 OIL & GAS ROYALTY OWNER East Resources, et al. LEASE ACREAGE 250 Ac.
 LEASE NO. _____
 PROPOSED WORK: DRILL ___ 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 Gordon ESTIMATED DEPTH 3,007'
 WELL OPERATOR East Resources, Inc. DESIGNATED AGENT Michael McCown
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 Vienna, W.Va. 26105

FEB 28 2003

TYL 1604F



Note: All Known Water Supply Sources Located Within 1000' Of Proposed Well Are Shown.

Denotes Water Supply Source.

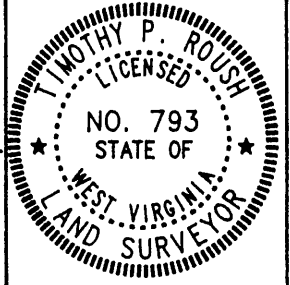
LOCATION REFERENCES
N 80° 38' E 129' DBL. BLACK CHERRY
N 68° 19' W 108' 14" DBL. POPULAR

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

FILE NO. 1280
 MAP NO. N47 N 1 S E W 4
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION F.R. Ball No.9
(47-095-0548) = 1152'

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) Timothy P. Roush
 TIMOTHY P. ROUSH PS 793



STATE OF WEST VIRGINIA
 DIVISION OF ENERGY
 OIL AND GAS SECTION



DATE October 28, 19 93
 FARM F.R. Ball NO. K-5
 API WELL NO. 47-095-1604-L1

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 830' WATERSHED Indian Creek

DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Centerpoint Q 15 NW

SURFACE OWNER John Jones et. al. ACREAGE 5.5 ac.
 OIL & GAS ROYALTY OWNER Pennzoil Products Co. et. al. LEASE ACREAGE 250 ac.
 LEASE NO. 15459-50

PROPOSED WORK: DRILL 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 Gordon ESTIMATED DEPTH 2900' (TVD=2810')
 WELL OPERATOR Pennzoil Products Company DESIGNATED AGENT James A. Crews
 ADDRESS P. O. Box 5519 ADDRESS P. O. Box 5519
Vienna, W.Va. 26105 Vienna, W.Va. 26105

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

ft

Well Operator's Report of Well Work

Farm name: JONES, JOHN /JOANN LELAND Operator Well No.: F. R. BALL K-5

LOCATION: Elevation: 830' Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 2,950 Feet south of 39 Deg 27 Min 30 Sec.
Longitude: 4,250 Feet west of 80 Deg 40 Min 00 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: MICHAEL MCCOWN

Inspector: MIKE UNDERWOOD

Permit Issued: 02/24/03

Well work Commenced: 03/20/03

Well work Completed: 03/24/03

Verbal plugging permission granted on: _____

Rotary X Cable _____ Rig _____

Total Depth (feet) 3,007

Fresh water depths (ft) NA

Salt water depths (ft) NA

Is coal being mined in area (Y/N) N

Coal Depths (ft): NA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	219.50'	219.50'	50 sks
4 1/2"	2995'	2995'	300 sks

WEST VIRGINIA
Division of Environmental Protection
Office of Oil & Gas
Permitting
MAY 28 2003
WV Department of Environmental Protection

OPEN FLOW DATA

* Waterflood injection well

Producing formation Gordon Pay zone depth (ft) 2885'-2912'
 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

Second producing formation _____ Pay zone depth (ft) _____
 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

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.

For: EAST RESOURCES, INC.

By: *Ben Alder*

Date: 5/24/05

MAY 02 2003

TYL
1604

Treatment: Treated Gordon perforations 2904'-2912' with 250 gals 15% HCL, 290 bbls Crosslinked gel water and 15,300# 20/40 sand

Well Log See original well log

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

Well Operator's Report of Well Work

Farm name: JONES, JOHN/JOANN LELAND Operator Well No.: F.R. BALL K-5

LOCATION: Elevation: 830.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER
Latitude: 2950 Feet South of 39 Deg. 27Min. 30 Sec.
Longitude 4250 Feet West of 80 Deg. 40 Min. Sec.

Company: PENNZOIL PRODUCTS COMPANY
P. O. BOX 5519
VIENNA, WV 26105-5519

Agent: JAMES A. CREWS

Inspector: MIKE UNDERWOOD
Permit Issued: 03/22/94
Well work Commenced: 06/04/94
Well work Completed: 09/12/94
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3007
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 8-5/8	219.50	219.50	To surface 50 sks.
4-1/2	2995'	2995'	300 sks.

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

OPEN FLOW DATA * Water Injection Well

Producing formation Gordon Pay zone depth (ft) 2885'-2912'
 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

Second producing formation Pay zone depth (ft)
 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

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.

For: PENNZOIL PRODUCTS COMPANY

By: [Signature]
Date: 1/4/95

TREATMENT

Perforated with 16 holes 2904'-2912'. Treated with 300 gallons 15% HCL acid, 280 barrels gelled water and 7000 lbs. of 20/40 sand.

WELL LOG

Sand & Shale	0'-1126'
Sand	1126'-1154'
Sand & Shale	1154'-1748'
Sand	1748'-1768'
Sand & Shale	1768'-1806'
Sand	1806'-1810'
Shale	1810'-2012'
Sand	2012'-2286'
Shale	2286'-2666'
Sand	2666'-2670'
Shale	2670'-2682'
Sand	2682'-2686'
Shale	2686'-2871'
Stray	2871'-2885'
Gordon	2885'-2913'
T.D.	3007'

18868

NOV 01 1991



1) Date: October 28
 2) Operator's Well No. F. R. BALL NO. 16045
 3) SIC Code _____
 4) API Well NO. 47 State 095 County 16045
 5) UIC Permit No. _____

FORM (Rev)

STATE OF WEST VIRGINIA
 NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
 for the
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

Issued 03/22/99
 Expires 03/22/96

NOTE: Well will be directionally drilled N46 - 43E 775'

- 6) WELL TYPE: Liquid injection / Gas injection (not storage) _____ / Waste disposal _____
- 7) LOCATION: Elevation: 830' Watershed: Indian Creek
 District: McElroy County: Tyler Quadrangle: Centerpoint
- 8) WELL OPERATOR Pennzoil Products Company 9) DESIGNATED AGENT James A. Crews
 Address P. O. Box 5519 Address P. O. Box 5519
Vienna, WV 26105 Vienna, WV 26105
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED Name Mike Underwood
 Address Rt. 2, Box 135
Salem, WV 26426
- 11) DRILLING CONTRACTOR:
 Name _____
 Address _____
- 12) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____ / Convert _____
 Other physical change in well (specify) _____
- 13) GEOLOGICAL TARGET FORMATION, Gordon Depth 2800 feet(top) to 2815 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 2900 ft. (T.V.D. = 2810')
- 15) Approximate water strata depths: Fresh, 20 feet; salt, 1050 feet.
- 16) Approximate coal seam depths: 642
- 17) Is coal being mined in the area? Yes _____ / No
- 18) Virgin reservoir pressure in target formation 1400 psig. Source Estimated
- 19) Estimated reservoir fracture pressure 3500 psig (BHFP)
- 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 25 Bottom hole pressure 2332
- 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Freshwater, produced water, bactericides, and other chemicals as necessary to maintain water quality and improve oil recovery.
- 22) FILTERS (IF ANY): Cartridge filters and/or coalbed filters
- 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: _____

24) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water	8-5/8	L.S.	20	X		200'	200'	cement to surface	Sizes
Coal									
Intermediate									
Production	4-1/2	J-55	10.5	X		2900'	2900'	cement over salt sand	Depths set
Tubing									Perforations:
Liners									Top Bottom

25) APPLICANT'S OPERATING RIGHTS were acquired from F. R. Ball
 by deed _____ / lease / other contract _____ / dated September 11, 1895, of record in the
Tyler County Clerk's office in Lease Book 27 at page 309

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

NOV 01

1) Date October 28, 1993
Operator's
2) Well No. F. R. BALL NO. K-5
3) SIC Code _____
4) API Well No. 47 - 095 - 1604
State County Permit

STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION
for the

DIVISION OF OIL AND GAS, DEPARTMENT OF ENERGY

- | | |
|---|--|
| 6) SURFACE OWNER(S) OF RECORD TO BE SERVED | 7 (i) COAL OPERATOR <u>N/A</u> |
| (i) Name <u>John Jones & Joann & Kevin Leland</u> | Address _____ |
| Address <u>720 James Street</u> | 7 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD: |
| <u>New Martinsville, WV 26155</u> | Name _____ |
| (ii) Name <u>Kenneth Glover</u> | Address _____ |
| Address <u>HC 62, Box 45</u> | 7 (iii) COAL LESSEE WITH DECLARATION ON RECORD: |
| <u>Jacksonburg, WV 26377</u> | Name _____ |
| (iii) Name _____ | Address _____ |
| Address _____ | |

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Liquid Injection or Waste Disposal Well Work Permit on Form WW-3(B), which sets out the parties involved in the drilling or other work, and
- (2) The plat (surveyor's map) showing the well location on Form WW-6; and
- (3) The Construction and Reclamation Plan on Form WW-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

The date proposed for the first injection or waste disposal is _____, 19____.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM WW-3(B)) DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22B of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Director of the Division of Oil and Gas, West Virginia Department of Energy, with respect to a well at the location described on the attached Application and depicted on attached Form WW-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Director.

The person signing this document shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document 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.

Pennzoil Products Company
Well Operator

By Timothy P. Roush Timothy P. Roush

Its Supervisor, Surveying/Mapping

Telephone (304) 422-6565