

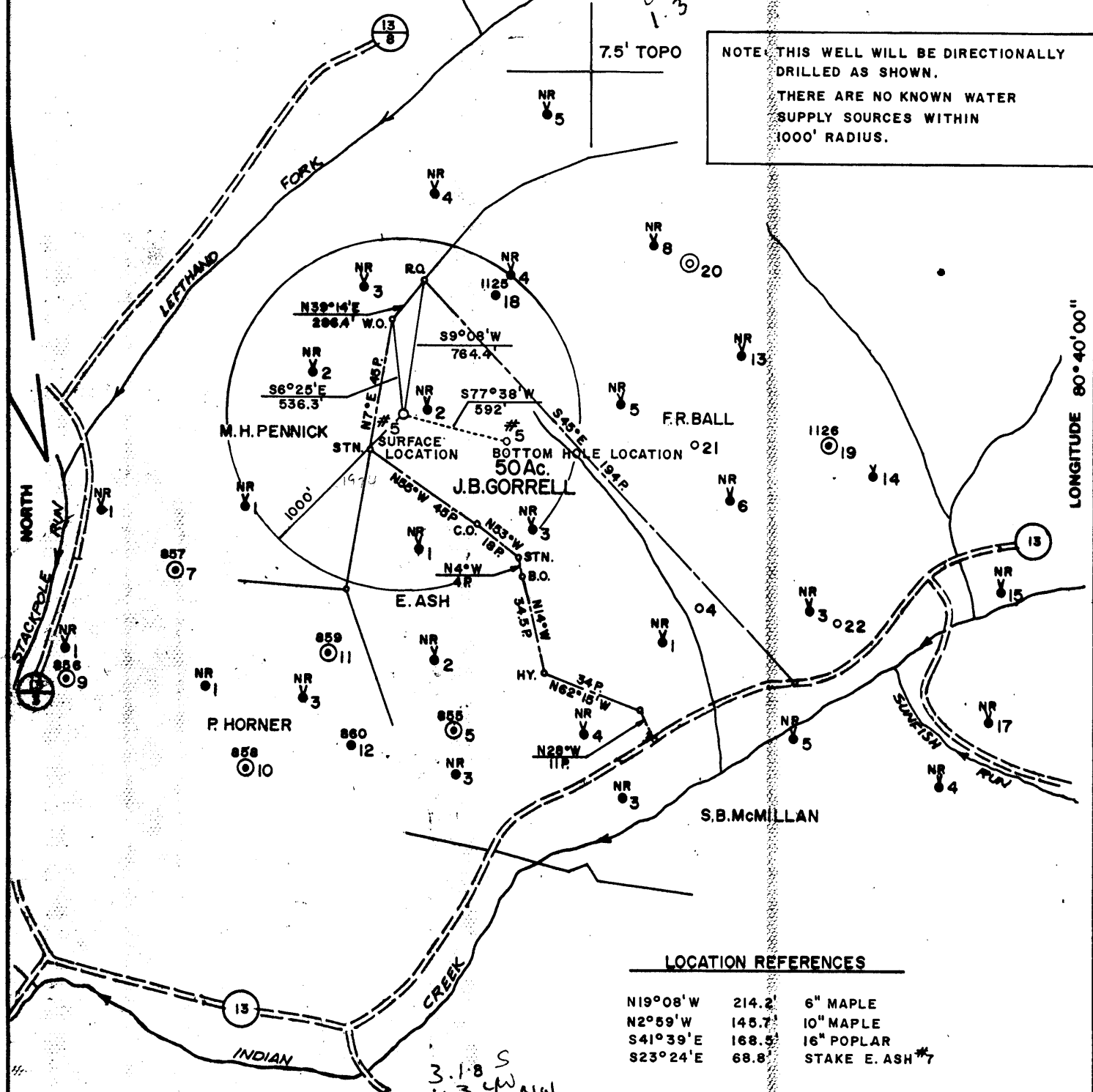
MS 6-21-90

0.30  
1.34 W

LATITUDE 39°27'30"

7.5' TOPO

NOTE: THIS WELL WILL BE DIRECTIONALLY DRILLED AS SHOWN.  
THERE ARE NO KNOWN WATER SUPPLY SOURCES WITHIN 1000' RADIUS.



LOCATION REFERENCES

N19°08'W	214.2'	6" MAPLE
N2°59'W	148.7'	10" MAPLE
S41°39'E	168.5'	16" POPLAR
S23°24'E	68.8'	STAKE E. ASH #7

3.18 S  
1.34 W

FILE NO. 1752  
MAP N47 SQS NI W4  
SCALE 1"=800'  
MINIMUM DEGREE OF ACCURACY 1 IN 200'  
PROVEN SOURCE OF ELEVATION F.R.BALL WELL NO.18  
ELEV. = 1093'

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  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION



DATE MAY 31, 1990  
FARM J.B. GORRELL NO. 5-REV  
API WELL NO.

47 - 095 - 1448-LT  
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
LOCATION: ELEVATION 1,232' WATER SHED INDIAN CREEK  
DISTRICT McELROY S COUNTY TYLER  
QUADRANGLE CENTER POINT 7.5'

SURFACE OWNER JOHN JONES ACREAGE 107.61 AC.  
OIL & GAS ROYALTY OWNER PENNZOIL COMPANY LEASE ACREAGE 50 AC.

LEASE NO. RG 2171-00  
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 3,270'  
WELL OPERATOR PENNZOIL PRODUCTS CO. DESIGNATED AGENT JAMES A. CREWS  
ADDRESS P.O. BOX 5519 673 ADDRESS P.O. BOX 5519  
VIENNA, WV 26105 VIENNA, WV 26105

AUG 6 1990

6-6-8-0 Sacksonburg - Strimtown Coas

FORM IV-6 (8-78)  
H. T. HALL

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: JONES, JOHN L./K. LELAND Operator Well No.: J. B. GORRELL 5

LOCATION: Elevation: 1232.00 Quadrangle: CENTER POINT

District: MCELROY County: TYLER  
Latitude: 1550 Feet South of 39 Deg. 27Min. 30 Sec.  
Longitude 7150 Feet West of 80 Deg. 40 Min. 0 Sec.

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

Agent: JAMES A. CREWS

Inspector: GLEN P. ROBINSON  
Permit Issued: 07/30/90  
Well work Commenced: 10-1-90  
Well work Completed: 11-15-90  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 3285'  
Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. To surface
8-5/8	499.10	499.10	365 Sk.
4-1/2	3293.30	3293.30	300 Sk.

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3206-3244  
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 N/A 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

\* Not tested, WF producer.

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: Timothy P. Roush Timothy P. Roush  
Date: April 11, 1991

APR 19 1991

Stimulation

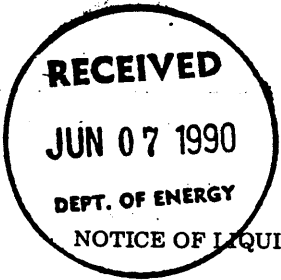
Perforated: Gordon 3210-3220 - 10 holes

Treated w/300 gals. reg. HF acid, 292 Bbls. gelled water and 1500# 80/100 and 3500# 20/40 sand.

Well Log

Sand & Shale	00-398
Sand	398-498
Shale	498-672
Sand	672-696
Sand & Shale	696-972
Sand	972-1002
Sand & Shale	1002-1108
Sand	1108-1136
Shale	1136-1257
Sand	1257-1276
Shale	1276-1340
Sand	1340-1358
Shale	1358-1497
Sand	1497-1542
Shale	1542-1711
Sand	1711-1745
Sand & Shale	1745-1914
Sand	1914-1928
Shale	1928-1996
Sand	1996-2014
Shale	2014-2102
Sand	2102-2149
Shale	2149-2178
Sand	2178-2203
Shale	2203-2292
Little Lime	2292-2307
Shale	2307-2334
Big Lime	2334-2450
Big Injun	2450-2592
Shale	2592-3206
Gordon	3206-3244
Shale	3244-3285
T.D.	3285'

10756



1) Date: June 4, 19 90  
 2) Operator's Well No. J. B. GORRELL NO. 5  
 3) SIC Code \_\_\_\_\_  
 4) API Well NO. 47 - 095 - 1418-LI  
State County Permit  
 5) UIC Permit No. UIC2R09501AP

*Issued 7/30/90  
Expires 7/30/92*

STATE OF WEST VIRGINIA  
NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

for the  
DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

- 6) WELL TYPE: Liquid injection  / Gas injection (not storage) \_\_\_\_\_ / Waste disposal \_\_\_\_\_
- 7) LOCATION: Elevation: 1232' Watershed: Indian Creek 286  
 District: McElroy (5) County: Tyler Quadrangle: Center Point 7.5'
- 8) WELL OPERATOR Pennzoil Products Company 9) DESIGNATED AGENT James A. Crews  
 Address P.O. Box 5519 Address P.O. Box 5519  
Vienna, W. Va. 26105-5519 Vienna, W. Va. 26105-5519
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Glen P. Robinson  
 Address Rt. 1, #6 Mt. Pleasant Est.  
Mineral Wells, W. Va. 26150
- 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 3118 feet(top) to 3128 feet(bottom)
- 14) Estimated depth of completed well, (or actual depth of existing well) 3270 ft.
- 15) Approximate water strata depths: Fresh, 457 feet; salt, 1650 feet.
- 16) Approximate coal seam depths: \_\_\_\_\_
- 17) Is coal being mined in the area? Yes \_\_\_\_\_ / No  /
- 18) Virgin reservoir pressure in target formation 80 psig. Source Estimated
- 19) Estimated reservoir fracture pressure 3500 (Bottom Hole) psig (BHFP)
- 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 20.8 Bbls. Bottom hole pressure 2340 psi
- 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Fresh and produced water from Stringtown field operations with bactericides.
- 22) FILTERS (IF ANY): Coal Bed and/or cartridge filters
- 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: \_\_\_\_\_

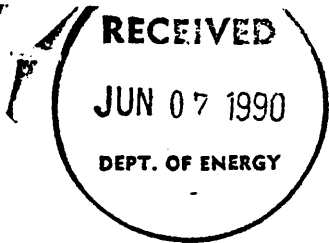
24) CASING AND TUBING PROGRAM

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									Kinds
Fresh water	8-5/8	H-40	24	X		487'	487'	Cmt to surface	38 CSR-18-11.3
Coal									Sizes
Intermediate									
Production	4-1/2	J-55	9.5	X		3270'	3270'	300 sks.	Depth: 23 CSR 18-11.1
Tubing									
Liners									Perforations: Top Bottom

25) APPLICANT'S OPERATING RIGHTS were acquired from Emaline Gorrell  
 by deed \_\_\_\_\_ / lease  / other contract \_\_\_\_\_ / dated March 23, ~~1897~~ 1990, of record in the  
Tyler County Clerk's office in Lease Book 33 at page 61

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

10756



- 1) Date May 30, 1990  
Operator's
- 2) Well No. J. B. CORRELL NO. 5
- 3) SIC Code
- 4) API Well No. 47 - 095 - 1418 -  
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
  - (i) Name John L. Jones/JoAnn & Kevin Leland  
Address 720 James Street  
New Martinsville, W.Va. 26155
  - (ii) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (iii) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 7 (i) COAL OPERATOR \_\_\_\_\_  
Address \_\_\_\_\_
- 7 (ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 7 (iii) COAL LESSEE WITH DECLARATION ON RECORD:  
Name \_\_\_\_\_  
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 (302) 422-6565